# Allied-Signal Aerospace Company

**Electrodynamics Division** 11600 Sherman Way North Hollywood, CA 91605-5887 Telephone (818) 765-1010 (213) 877-2881

SFUND RECORDS CTR 2166-03038

RECEIVED

June 27, 1991

JUL 24 1991

MANAGEMENT, INC.

PRC ENVIRONMENTAL Chris Stubbs South Coast Groundwater Section (H-6-4) United States Environmental Protection Agency P.O. Box 193062 San Francisco, CA 94119-3036

EPA Information Request RE: 11600 Sherman Way

N. Hollywood, CA 91605-5887

Dear Mr. Stubbs:

The following information is submitted in response to the Information Request dated April 17, 1991. The attached documents represent information from 1989 to the present. Our records indicate our last information submittal was August 24, 1989 to Mr. Jeff Zelikson, Director - Hazardous Waste Management Division, US EPA.

All responses were prepared by Nancy Girten, Senior Environmental Engineer, unless otherwise stated.

If you have any questions or comments, please call me at (213) 618-7224, or Nancy Girten at (213) 618-7225.

Sincerely,

Danilo Gutierrez

Manager, Health, Safety & Environment

Attachment/Enclosures

## RESPONSE TO EPA INFORMATION REQUEST DATED APRIL 17, 1991

 Allied-Signal Aerospace Co. Electrodynamics Division 11600 Sherman Way North Hollywood, CA 91605

EPA ID # CAD 008325334

- 2. The subject facility has existed at the current site location since 1941. Past and present facility operations involve the manufacture of aerospace components. Presently, the product line consists of hydraulic actuary systems.
- 3. The current owner is Allied-Signal, Inc. Throughout the 50 year history of the site, the owner's name has changed, as a result of mergers, but the facility has maintained consistent operations and product lines (i.e. Bendix Corp. merged with Allied Corp. in 1982 to form Allied-Bendix Corp. In 1985, Allied Corp. merged with Signal Co. to form Allied-Signal, Inc.)
- 4. During the 50 year existence of the facility, the site has operated under one owner (re-named throughout the 50 years due to mergers). However, records indicate Bendix purchased the property in 1941 from Lankershim Ranch, Land & Water Co. At that time, the land consisted of gardens and empty fields.
- 5. There have not been prior operators and/or lessees of this property during Allied-Signal/Bendix ownership.
- 6. A site map is attached showing surface and subsurface structures, existing wells, drainage systems, and previously excavated areas. Information submitted in prior requests concerning assessment or excavation included:
  - Leighton & Assoc., Inc., Phase I Preliminary Assessment of Hydrogeologic Conditions Related to a Leak Detection Program for Underground Storage Facilities at Bendix Corporation, 11600 Sherman Way, North Hollywood, California; May 29, 1984.
  - Leighton & Assoc., Inc., Phase II Data Acquisition and Assessment of Hydrogeologic Conditions Related to a Leak Detection Program for Underground Storage Facilities at Bendix Corporation, 11600 Sherman Way, North Hollywood, California; October 15, 1984.

Response to EPA Information Request dated April 17, 1991

- Leighton & Assoc., Inc., Soil Sampling and Analysis, Tanks 2,3,4, and 5 Removal; February 22, 1985.
- Leighton & Assoc., Inc., Soil Sampling and Analysis Sump Area Adjacent to Tank #11, Bendix Corporation, 11600 Sherman Way, North Hollywood, California; August 16, 1985.
- Leighton & Assoc., Inc., Soil Sampling and Analysis for Identification of Contamination Plume in the Vicinity of Tank #13 Site, Bendix Corporation, 11600 Sherman Way, North Hollywood, California; June 23, 1986.
- Leighton & Assoc., Inc., Soil Sampling and Analysis for Identification of Contamination, Tank #8 Excavation, Bendix Corporation, 11600 Sherman Way, North Hollywood, California; December 19, 1986.
- Leighton & Assoc., Inc., Soil Sampling and Removal of Contaminated Soil from the Tank #8 Excavation, Bendix Corporation, 11600 Sherman Way, North Hollywood, California; February 5, 1987.
- Leighton & Assoc., Inc., Final Report of the Soil Removal in the Vicinity of the Tank 13 Site, Bendix Corporation, 11600 Sherman Way, North Hollywood, California; Volumes I and II, April 28, 1989.
- Leighton & Assoc., Inc., Preliminary Site Assessment of Hydrocarbon Contamination in the Vicinity Beneath the Overlap Test Stand Room located at Bendix Corporation, 11600 Sherman Way, North Hollywood, California; July 7, 1989.

In addition, the report detailing installation of the existing well was previously submitted (Leighton & Assoc., Inc., Installation of Groundwater Monitoring Well W-1 for Identification of Contamination Plume in the Vicinity of TAnk #13 Site, Bendix Corporation, 11600 Sherman Way, North Hollywood, California; July 24, 1987). For completeness, the well log for W-1 is included in this submission.

- 7. Attached technical and analytical information includes:
  - Emission Inventory Plan; Allied-Signal Aerospace Company, Electrodynamics Division, August 10, 1989; prepared by Dynamac Corporation.

Response to EPA Information Request dated April 17, 1991

- Air Toxics Inventory Report; Allied-Signal Aerospace Company, Electrodynamics Division, June 1, 1990; prepared by Dynamac Corporation (includes Chrome Emissions from a Scrubber Exhaust Serving Two Hard Chrome Plating Tanks, One Chromic Acid Anodizing Tank, and One Chrome Strip Tank, May 8, 1990; prepared by Pacific Environmental Services, Inc.).
- 8. A complete site characterization involving the evaluation of groundwater and soil is currently being performed. Allied-Signal Electrodynamics Division has contracted T.A. Gleason & Assoc. to conduct the investigation. This characterization is being performed in preparation of closing the facility (estimated Dec. 1991), and possible sale of the property. This investigation is a comprehensive assessment involving the entire property (soil and groundwater). A final report detailing the first phase of the project (groundwater investigation) will be available November 1991, and will be submitted at that time. The current workplan is on file at the California Regional Water Quality Control Board, Los Angeles Region.
- 9. The facility site was acquired in 1941. Because of the previous use of the property, no disposal or placement of hazardous substances on, in or at the site was assumed.
- 10. Because the property was purchased in 1941, no investigations were conducted with respect to hazardous substance disposal on, in, or at the site.
- 11. This information is contained in the enclosed manifests (1989, 1990, and 1991), and the Business Emergency Response Plan for Allied-Signal Aerospace Company, Electrodynamics Division, updated March 8, 1991.
- 12. Any leaks, spills, releases or threats of releases have not occurred at the facility.
- 13. No releases or threatened releases were identified in response to Question 12.
- 14. The facility is currently connected to a sewer line monitored, and regulated by the L.A. County Sanitation District. These lines are shown on the enclosed site map. Leach fields or septic tanks are not used at the facility.

Response to EPA Information Request dated April 17, 1991

- 15. Any acts of any persons, other than Allied-Signal employees, agents, or those persons with whom Allied-Signal had a contractual relationship, did not contribute to the release of any hazardous substance at the facility.
- 16. Liability insurance policies are currently being requested from the parent company (Allied-Signal, Inc.) in Morristown, N.J. This information, if obtained, will be forwarded to the EPA when received.
- 17. See attached annual report.
- 18. See attached annual report.
- 19. See attached annual report.
- 20. See attached annual report.
- 21. The requested Articles of Incorporation and By-laws of Allied-Signal, Inc. are enclosed.
- 22. See attached annual report.

### ALLIED-SIGNAL AEROSPACE COMPANY ELECTRODYNAMICS DIVISION 11600 SHERMAN WAY NORTH HOLLYWOOD, CALIFORNIA

A record search of the requested information has been completed. Information requested, and forwarded to the EPA in partial form in this submittal will be forwarded in its entirety when received. In addition, interviews with long-time employees who may have knowledge of the requested information has been conducted (this information will be included in the Phase I Site Characterization Report to be submitted upon completion in November 1991). Information responsive to the Information Request has been forwarded to EPA.

Nancy A. Girten

Sr. Environmental Engineer

SWORN TO BEFORE ME

THIS Of TO DAY OF Some 1991

NOTARY PUBLIC

OFFICIAL SEAL
SHERYL FELLINGER
NOTARY PUBLIC - CALIFORNIA
LOS ANGELES COUNTY
My comm. expires JUN 28, 1991

| State of California—Health and Welfare Agency Form Approved OMB No. 2050—0039 (Expires 9-30-91)  Please plint or type. (Form designed for use on elite (12-phch typewner).  |                                    | 11                                    |                              | Department of Health<br>Toxic Substances Contro<br>Sacramento, (                                   |
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| GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition for national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, s present and future threat to human health and the environment; OR, if I am a small quantity ge generation and select the best waste management method that is available to me and that I content of the property of | and toxicity of<br>storage, or dis | f waste gene                          | ated to the                  | olicable international and degree I have determined to me which minimizes the to minimize my waste |
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# See instructions on Back of Page 6 and Front of Page 7

Department of Health Services Toxic Substances Control Division

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| Y                      | Printed/Typed Name 131 TIN VELASCO   | Signature Ri   | Tim                           | VNG                 | RO                                    | 1                     | JA1591  |

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SNAB BURNEY BORAFERS STEEL BY GO BY COLUMN

| 1      | UNIFORM HAZARDOUS 1. Generator's US EPA ID No. WASTE MANIFEST  | Manifest<br>Document No.   |  |   |  | the shaded area<br>by Federal law.  |
|--------|--|--|--|---|--|---|
| ı      | 3. Generator's Name and Malling Address. LADUU832533   | 49101  | A. St                                      | ate Manifest Docu   | mont Nur   | nber  |
| ı      | Allied-Signal Electrodynamics Division   |  | B. St                                      | ete Generator's ID  | 3/6  | 102 ···   |
| ı      | 4 Gall 600 Sherman Way, N. Hollywood, CA 91605   |  | L  | a wolale  | 10.3   | اجامامادا   |
|        | 6. US EPA ID N   | lumber   | C. St.                                     | ate Transporter's<br>anaporter's Phone  | 1/   | 3148  |
|        | 7. T. P. S. P. S. P. S. P. A. T. 9. S. P. A. IT 9.  | 34184  |  | ite Transporter's I   | , (80  | <del>) 824-3</del> 3  |
| ı      | <u> </u>   | 1111   | F. Tra                                     | insporter's Phone   |  | AM.   |
|        | 9. Designated Facility Name and Site Address 10. US EPA ID No.  Norris Environmental   | umber  | G. St.                                     | ate Facility's ID   |  | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |
| ı      | 5215 S. Boyle Ave.   |  | H. Fa                                      | cility's Phone  | 1013   | 1923  |
| ı      | V A4 A444  | 30003  |  |   | 121 .  | 100_7111  |
| ı      | 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)   | 12. Con  | tainers                                    | 13. Total Quantity  | 14.<br>Unit                                      | Waste N   |
| I      | a  | No.  | Туре                                       |   | Wt/Vol   | State   |
| G      | RQ Waste Chromic Acid Solution,<br>Corrosive Material UN 1755  |  |  |   |  | EPA/Other   |
| E<br>N |  | 0 10 11  | TIT  | 01/1/1010   | 6  | D003  |
| R      | b.   | 002  |  |   |  | State DOOL  |
| î      |  | 1  |  |   |  | EPA/Other   |
| Ř      | C.   |  |  |   |  | State   |
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|        | d.   | $-\downarrow \downarrow \downarrow$  |  | 1111  |  | 4   |
|        | *****  |  |  |   |  | State   |
|        |  | 1 1 1  |  |   |  | EPA/Other   |
|        | 11 a) Profile No. E1205CR6   | •  | *, ; ;                                     | 15  | b  | obe more con-   |
|        | 15. Special Handling Instructions and Additional Information   |  | <b>a.</b>                                  | ,15   | b  | Maria Maria Maria   |
|        | 15. Special Handling Instructions and Additional Information  USE PROPER PERSONAL PROTECTIVE EQUIPMENT  EMERGENCY CONTACT (818) 765-1010   |  | c.   | ,15   | b  | Winness Co.   |
|        | 15. Special Handling Instructions and Additional Information  USE PROPER PERSONAL PROTECTIVE EQUIPMENT  EMERGENCY CONTACT (818) 765-1010  18.  GENERATOR'S CERTIFICATION: 1 hereby declare that the contents of this consignment   | ant are fully and acc  | C.   | described shows b   | d  | abinoleo pama   |
|        | 15. Special Handling Instructions and Additional Information  USE PROPER PERSONAL PROTECTIVE EQUIPMENT  EMERGENCY CONTACT (818) 765-1010   | ent are fully and accition for transport b   | c.<br>curately<br>y highwa                 | described above by according to ap  | d.   | shipping name   |
|        | 15. Special Handling Instructions and Additional Information  USE PROPER PERSONAL PROTECTIVE EQUIPMENT  EMERGENCY CONTACT (818) 765-1010  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignme and are classified, packed, marked, and labeled, and are in all respects in proper conditional government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the vertical contents of the con | ition for transport b  | of west                                    | y according to ap   | plicable i                                       | nternational and  |
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|                   | UNIFORM HAZARDOUS 1. Generator's US El   |  | Manifest  | 2.  | Page 1   | Inform    | ation in  | the shaded a   |
|-------------------|--|--|---|---|--|-----------|---|--|
| ΓΙ                | WASTE MANIFEST   | Do<br> - - - - - - - - - - - - - - - - - - -   | cument No.  |   | of   |           |   | by Federal   |
|                   | 3. Generator's Name and Mailing Address  | JE 3 33 4 9"   | 0 11  | A. St   | ate Manins   | t Docu    | ment Nu   | mber   |
|                   | Allied-Signal Electrodynamic   | s Division   |   |   | <u> </u>   | <u>84</u> | 3/(   | J/4_   |
|                   | 11600 Sherman Way. N. Hollyw   | ood, CA 9160   | 5   | B. St   | ate Generat  | or's IO   |   |  |
| l ŀ               | 5. Transporter 1 Company Name 6.   | US EPA ID Number   |   | C at  | ate Transpo  | 13        | i 0   | 32 0 d   |
|                   |  | الما علما علما علما  | 1.1.1   | L   | ensporter's  |           |   | 1150   |
| Ī                 | 7. Transporter 2 Company Name Inc.   | US EPA ID Number   | 1 84  | E. Sta  | ate Transpo  | rter's II | <del>- (</del> 1  | <del>800) 8</del>  |
| L                 |  |  |   | F. Tra  | naporter's   | Phone     |   |  |
|                   | Designated Facility Name and Site Address     10.  | US EPA ID Number   |   | G. St   | ate Facility'  | s 10      |   | />-  |
|                   | Demenno Kerdoon  |  |   | H Es  | cility's Phon  | 100       | OO  | 1717   |
|                   | 2100 N. Alameda  |  | 1 1 1   |   | 0/3  | ک آ       | 53  | 7-712  |
| ſ                 | Compton, CA 90222 C  | 'A' TO '80 '0 13   | 312.5Com  | ainers  | 13. Tu   |           | 153   | 7-710  |
| _                 | 11. US DOT Description (Including Proper Shipping Name, Hazard C   | Class, and ID Number)  | No.   | Туре  | Qua  | ntity     | Unit<br>Wt/Vol  | Was  |
| ď                 |  |  |   |   |  |           |   | State  |
| ۱                 | Mon-RCRA Hazardous Waste Liqu  | 111  | j   |   |  |           |   | EPA/Ohir   |
| h                 | D.   | . , .  | <del> 0                                    </del>   | -   | 0118   | 100       | 6   | State #  |
| ı                 |  |  |   | ]' '  |  |           |   | State M  |
| ١                 |  |  | 1 , ,   |   |  | 1 1       |   | EPA/Other  |
| ſ                 | 3.   |  |   |   |  | L         | <u> </u>  | State  |
|                   | • •  |  |   |   | ,  |           |   | EPA/Other  |
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| -                 | $\mathcal{A}_{\mathcal{A}} = \mathcal{A}_{\mathcal{A}} = \mathcal{A}_{\mathcal{A}} = \mathcal{A}_{\mathcal{A}} = \mathcal{A}_{\mathcal{A}}$  | A Pron   |   |   |  | ,         |   | EPA/Other  |
|                   | Water Soluble 011 01% Lubricating 011 01%  | g i i i i i i i i i i i i i i i i i i i  |   | c.  | F-0  | 1/_       | d.  | •  |
|                   | Water 4870   |  |   | C.  | F =0   |           | d.  | <u>.</u>   |
|                   | Water  5. Special Handling Instructions and Additional Information  USE PROPER PERSONAL PROTECTIV  | E EQUIPMENT  | -   | c.  | F-0  |           | d.  |  |
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| 1                 | 5. Special Handling Instructions and Additional Information  USE PROPER PERSONAL PROTECTIV  6.  GENERATOR'S CERTIFICATION: I hereby declare that the con and are classified, packed, marked, and labeled, and are in all renational government regulations.  H I am a large quantity generator, I certify that I have a program to be economically practicable and that I have selected the precipility practicable and that I have selected the practicable and the practica | itents of this consignment are<br>espects in proper condition for<br>in place to reduce the volume<br>ticable method of treatment, s<br>DR, if I am a small quantity ge<br>a available to me and that I co   | and toxicity<br>storage, or d                       | curately<br>y highwa                                  | e generated  | to app    | y proper<br>blicable i<br>degree                        | international<br>I have detern<br>hich minimize<br>mize my was   |
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| 17 Pr 18          | 5. Special Handling Instructions and Additional Information  USE PROPER PERSONAL PROTECTIV  6.  GENERATOR'S CERTIFICATION: I hereby declare that the contained are classified, packed, marked, and labeled, and are in all renational government regulations.  If I am a large quantity generator, I certify that I have a program to be economically practicable and that I have selected the practice of the precipesent and future threat to human health and the environment; if generation and select the best waste management method that in trinted/Typed Name  NANCY A FIRTEN  Transporter 1 Acknowledgement of Receipt of Materials  inted/Typed Name  | stents of this consignment are espects in proper condition for in place to reduce the volume ticable method of treatment, so PR, if I am a small quantity ge s available to me and that I consider the state of the s | and toxicity<br>storage, or d                       | curately<br>y highwa                                  | e generated  | to app    | y proper<br>blicable i<br>degree                        | I have determined in the minimize mize my was Month Da   |
| 11 17 Pr 18       | 5. Special Handling Instructions and Additional Information  USE PROPER PERSONAL PROTECTIV  8.  GENERATOR'S CERTIFICATION: I hereby declare that the con and are classified, packed, marked, and labeled, and are in all renational government regulations.  H I am a large quantity generator, I certify that I have a program to be economically practicable and that I have selected the pracpresent and future threat to human health and the environment; generation and select the best waste management method that i rinted/Typed Name  NANCY A GIRTEN  Transporter 1 Acknowledgement of Receipt of Materials inted/Typed Name   | itents of this consignment are espects in proper condition for in place to reduce the volume ticable method of treatment, soR, if I am a small quantity ge a available to me and that I consider the strength of the small quantity gets a valiable to me and that I consider the small quantity gets available to me and that I consider the small quantity gets available to me and that I consider the small quantity gets available to me and that I consider the small quantity gets a small qu | and toxicity<br>storage, or d                       | curately<br>y highwa                                  | e generated  | to app    | y proper<br>blicable i<br>degree                        | International I have determined minimize my was  Month Da IO3IZI  Month Da IO3IZI  |
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| 4. Generator's Phone (   |  |  | B. US EPA ID Nu  | -mhor   | 1 3   | A   |  | 3 2 0  | 6  |
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| 9. Designated Facility I   | Name and Site Addre  | 38   | 10. US EPA ID Nu   | ımber   | G. Sta  | te Facility's   | MD                                       |  |  |
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|--|--|--|---|--|--|---|--|
| 3. Generator's Name and Mailigo Address 111ed-Signal Electrodynam  | ics Division   |  |   | A. State M   | 884  | -   | 166  |
| 11600 Sherman Way, N. Ho   | ollywood, CA 9   | 1605   |   |  | enerator e ID<br>M. Im. 19 Id  | 11  | 12 0 6 17  |
| 5. Transporter 1 Company Name Disposal Control Service   | 6.   | US EPA ID Number   | L   | C. State Tr<br>D. Transpo  | ensporter's<br>rter's Phone  | 113   | 033/11   |
| 7. Transporter 2 Company Name  | 8.   | US EPA ID Number   | L   |  | ansporter's i  | 1 <del>8)</del>   | <del>20) 624-</del>  |
| 9. Designated Facility Name and Site Address   | 10.  | US EPA ID Number   |   | 3. State Fa  | cility's ID  |   | 200  |
| Norris Environmental Ser<br>5215 S. Boyle Avenue   | rvices   |  |   | L Facility's   | 10191<br>Phone   | ZOS   | 0191913  |
| Yernon, CA 90058   | C N D  | 0 9 7 0 3  | d d d d   | iers 1   | 3. Tota 21   | 3),58   | 8-7111 <sub>1</sub>  |
| 11. US DOT Description (Including Proper Shipp   | ing Name, Hazard Class, and  | d ID Number)   | No.   | Гуре   | Quantity   | Unit<br>Wt/Voi  | Waste<br>State   |
| RQ Waste Chromic Acid Se   | lution,  | •  |   |  |  |   | 792<br>EPA/Other   |
| Corrosive Material UN  | 1755 (DOT-   | E (6800)   | d a e   | OFO  | 033  | Q G   | Day DC   |
| RQ Hazardous Waste Liqui   |  |  |   |  |  |   | EPA 2017   |
| (Chrome Strip)   | POT-   | (89<br>(E68W)  | 006   | d F d  | 0 3 3 4  | -   | 90006 DO   |
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| J. Additional Descriptions for Materials Listed Ab   | oove C I   | 50/  | 11/VIE  | C. Handling  | Codes for V  |   | sted Above   |
| 11A) E1205CR6 -Cheomic   | : Acin Solu  | I ON - ERG   | 5360  |  | Codes for V  | b.  | sted Above   |
| J. Additional Descriptions for Materials Listed Ab  11A) E1205CR6 - Cheomic  11B) E1205CR87 Chromi   | : Acin Solu  | 1.0N - ERG   | 5 3 60 3  |  | Codes for V  |   | sted Above   |
| 11A) E1205CR6 - Cheomic<br>11B) E1205CR87 Chromi<br>14   | Steip - Ex   | 26 #31   | 5360  |  | 5  | d.  | 15   |
| 11A) E1205CR6 - Chromic<br>11B) E1205CRE7 Chromic<br>14<br>15. Special Handling Instructions and Additional in<br>24 DR. Emergency Con   | Steip - Ex<br>Steip - Ex<br>of act = (714) 9   | 193-0342   | 5360  |  | 5  | d.  | 15   |
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If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name 17. Transporter 1 Acknowledgement of Receipt of Materials Month Printed Typed Name 18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Year Month Day

Month

19. Discrepancy Indication Space

· TABACOL

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

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| A44-6602 24 HOURS PER DAY.                 | 15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of a proper shipping name and are classified, packed, marked, and labeled, according to applicable international and national government regulation of the economically practicable and that I have a program in the been conomically practicable and that I have selected the practical present and future threat to human health and the environment; Of generation and select the best waste management method that  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement or Receipt of Materials  Printed/Typed Name   | his consignment are fully and account are in all respects in proper changes and are in all respects in proper changes are in all respects in proper changes are in all respects in proper changes and shall be method of treatment, storages, if I am a small quantity generic available to me and that I signature  | ondition for transport b<br>toxicity of waste gene<br>ge, or disposal currentl<br>rator, I have made a g | by y highway rated to the degree I have determined y available to me which minimizes the bood faith effort to minimize my waste    Date   Month Day Year  |
| 400-424-6602 24 HOURS PER DAY.             | 15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of proper shipping name and are classified, packed, marked, and labeled, according to applicable international and national government regulation to be economically practicable and that I have a program in to be economically practicable and that I have selected the practical present and future threat to human health and the environment; O generation and select the best waste management method that  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement or Receipt of Materials  Printed/Typed Name   | his consignment are fully and accounts are in all respects in proper cons.  blace to reduce the volume and ble method of treatment, storag R; if I am a small quantity gene is available to me and that I Signature  Signature  Signature  | toxicity of waste generate, or disposal currently rator, I have made a gran afford.                      | by y highway  rated to the degree I have determined y available to me which minimizes the bood faith effort to minimize my waste  Date  Month Day Year  Date  Month Day Year  Month Day Year  |
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| R AT 1-400-424-4-602 24 HOURS PER DAY.     | 15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of proper shipping name and are classified, packed, marked, and labeled, according to applicable international and national government regulation to be economically practicable and that I have a program in to be economically practicable and that I have selected the practical present and future threat to human health and the environment; O generation and select the best waste management method that  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement or Receipt of Materials  Printed/Typed Name   | his consignment are fully and accounts are in all respects in proper cons.  blace to reduce the volume and ble method of treatment, storag R; if I am a small quantity gene is available to me and that I Signature  Signature  Signature  | toxicity of waste generate, or disposal currently rator, I have made a gran afford.                      | by y highway  rated to the degree I have determined y available to me which minimizes the bood faith effort to minimize my waste  Date  Month Day Year  Date  Month Day Year  Month Day Year  |
| TER AT 1-400-424-4802 24 HOURS PER DAY     | 15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of proper shipping name and are classified, packed, marked, and labeled, according to applicable international and national government regulation to be economically practicable and that I have a program in to be economically practicable and that I have selected the practical present and future threat to human health and the environment; O generation and select the best waste management method that  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement or Receipt of Materials  Printed/Typed Name   | his consignment are fully and accounts are in all respects in proper cons.  blace to reduce the volume and ble method of treatment, storag R; if I am a small quantity gene is available to me and that I Signature  Signature  Signature  | toxicity of waste generate, or disposal currently rator, I have made a gran afford.                      | by y highway  rated to the degree I have determined y available to me which minimizes the bood faith effort to minimize my waste  Date  Month Day Year  Date  Month Day Year  Month Day Year  |
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| CENTER AT 1-BO0-124-BB02 24 HOURS PER DAY. | 15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of a proper shipping name and are classified, packed, marked, and labeled, according to applicable international and national government regulation of the economically practicable and that I have a program in the been conomically practicable and that I have selected the practical present and future threat to human health and the environment; Of generation and select the best waste management method that  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement or Receipt of Materials  Printed/Typed Name   | his consignment are fully and accounts are in all respects in proper cons.  blace to reduce the volume and ble method of treatment, storag R; if I am a small quantity gene is available to me and that I Signature  Signature  Signature  | toxicity of waste generate, or disposal currently rator, I have made a gran afford.                      | by y highway  rated to the degree I have determined y available to me which minimizes the bood faith effort to minimize my waste  Date  Month Day Year  Date  Month Day Year  Month Day Year  Month Day Year  Month Day Year  |
| ENTER AT 1-00-424-8802 24 HOURS PE         | 15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of proper shipping name and are classified, packed, marked, and labeled, according to applicable international and national government regulation of the economically practicable and that I have a program in to be economically practicable and that I have selected the practical present and future threat to human health and the environment; O generation and select the best waste management method that  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name  18. Transporter 2 Acknowledgement or Receipt of Materials Printed/Typed Name  19. Discrepancy Indication Space  19. Discrepancy Indication Space  | his consignment are fully and accounts.  In a special in proper of the state of the | toxicity of waste generate, or disposal currently rator, I have made a gran afford.                      | aby y highway  rated to the degree I have determined y available to me which minimizes the bood faith effort to minimize my waste  Date  Month Day Year  Date  Month Day Year  Annth Day Year  Month Day Year  Month Day Year  Month Day Year  Date  Month Day Year  Date  Month Day Year  Date  Month Day Year  Date  Date  Month Day Year  Date |
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| CENTER AT 1-400-424-8802 24 HOURS PER DAY. | 15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of proper shipping name and are classified, packed, marked, and labeled, according to applicable international and national government regulation of the economically practicable and that I have a program in to be economically practicable and that I have selected the practical present and future threat to human health and the environment; O generation and select the best waste management method that  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name  18. Transporter 2 Acknowledgement or Receipt of Materials Printed/Typed Name  19. Discrepancy Indication Space  19. Discrepancy Indication Space  | his consignment are fully and accounts.  In a special in proper of the state of the | toxicity of waste generate, or disposal currently rator, I have made a gran afford.                      | aby y highway  rated to the degree I have determined y available to me which minimizes the bood faith effort to minimize my waste  Date  Month Day Year  Date  Month Day Year  Annth Day Year  Month Day Year  Month Day Year  Month Day Year  Date  Month Day Year  Date  Month Day Year  Date  Month Day Year  Date  Date  Month Day Year  Date |
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IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

| print or type. (Form designed for use on elite   |  |                                     |                                       |                     | Sacramento, Californ   |
|--|--|-------------------------------------|---------------------------------------|---------------------|--|
| UNIFORM HAZARDOUS WASTE MANIFEST   | Dox  | Manifest<br>current No.<br>1 Ol 1 3 | 2. Page 1<br>of 1                     | 1                   | in the shaded areas<br>ed by Federal law.  |
| 3. Generator's Name and Mailing Address Allied-Signal Electrod                           | ynamics Division   |                                     | A. State Manife                       | 8457                | fumber<br>077  |
| 11600 Sherman Way, N.  | Hollywood, CA 91605  |                                     | B. State Gener                        | tor s ID            |  |
| 4. Generator's Phone (818) 503-321   |  |                                     | HAH                                   | 0360                | 32067  |
| 5. Transporter 1 Company Name  | 6. US EPA ID Number  |                                     | C. State Transp                       |                     | 1551   |
| 011 and Solvent Process  |  | 2 9 0 3                             |                                       |                     | 118) 134-5117  |
| 7. Transporter 2 Company Name  | 8. US EPA ID Number  |                                     | E. State Transp                       |                     |  |
| 9. Designated Facility Name and Site Addres  | s 10. US EPA ID Number   |                                     | F. Transporter's                      | <u> </u>            | Carried Street, Street |
| 011 and Solvent Process<br>1704 W. First St.   |  |                                     | G. State Facility H. Facility's Ph    | 1083                | 22903  |
| Azusa, CA 91702  | C   A   D   O   O   8   3   O  | 2 9 0 3                             |                                       | (818) 1             | 34-5117  |
| 44 US DOT D  |  | 12. Cont                            |                                       | otal 14.            |  |
| 11. US DOT Description (Including Proper Shi   | pping Name, Hazard Class, and 80 Number)   | No.                                 | Туре                                  | uantity Uni<br>Wt/V |  |
| a.   | makhana OW. A IM2021   |                                     |                                       |                     | State  |
| RQ Waste 1,1,1 Trichlor  |  |                                     |                                       |                     | EPA/Q#001  |
|  | (FW1)  | 21014                               | D M 1012                              | 100 G               |  |
| RQ Waste Flammable Liqu  | ıfd, NOS,  | 1                                   |                                       | 100                 | State  |
| Flammable Liquid, UN199<br>(Red Oil and Hept   | 93 (   | 002                                 | D MO DA                               | 5-10 G              | EPA/Other  |
| C. ·   |  |                                     | مدم ما او                             |                     | State DOOL   |
| RQ Waste Heptane, F  | lammable Liquid UN1206   |                                     |                                       |                     |  |
|  |  | 00 11                               | DIMOIOD                               | IE IO C             | EPA/Oth  |
| d.   |  | 100 11                              | DI MOTOR                              | 15 10 G             | State  |
|  |  |                                     |                                       |                     | 70.00  |
|  |  | 111                                 |                                       | 11                  | EPA/Other  |
| J. Additional Descriptions for Materials Listed  | Above  |                                     | K. Handling Cod                       | les for Wastes      | Listed Above   |
| 11 A) 6 93094<br>11 B) F 28556   | •  | ,                                   |                                       | d.                  | 4  |
| 11 C) F 28557  |  |                                     | U                                     | 7                   |  |
| 15. Special Handling Instructions and Addition USE PROPER PERSONAL PRO                   |  | (212)                               | 165-,                                 | 1010                |  |
|  | by declare that the contents of this consignment are<br>abeled, and are in all respects in proper condition fo   |                                     |                                       |                     |  |
| to be economically practicable and that I i<br>present and future threat to human health | that I have a program in place to reduce the volume<br>nave selected the practicable method of treatment,<br>and the environment; OR, if I am a amall quantity ge<br>agement method that is available to me and that I c | storage, or di<br>enerator, I ha    | isposal currently a                   | available to me     | which minimizes the  |
| Printed/Typed Name   | Signature  | 11 1                                |                                       |                     | Month Day Year   |
| MANCY A. GIRTEN  | X AMPLI  | 11 In                               | nter                                  |                     | nun 691  |
| 17. Transporter 1 Acknowledgement of Receip  | t of Materials   |                                     |                                       |                     | ODO VI   |
| Printed/Typed Name   | Signature O  | 2/                                  | · · · · · · · · · · · · · · · · · · · |                     | Month Day Year   |
| ( ) ( ) ( ) ( ) ( )  | VEIU CIDX  | 111                                 | Olion.                                |                     | MUVISBIA   |
| 18. Transporter z Acknowledgement of Receip  | t of Materials   | <del></del>                         | <del>-0-00</del>                      |                     | 0.000,1  |
| Printed/Typed Name   | Signature  |                                     |                                       |                     | Month Day Year   |
|  |  |                                     |                                       |                     |  |
| 19. Discrepancy Indication Space   |  |                                     |                                       |                     |  |
| 20. Facility Owner or Operator Certification of  | receipt of hazardous materials covered by this mani  | ifest except a                      | as noted in Item 1                    | 9.                  |  |
| Printed Tygod Name  ACDE   | Signature ( )  | KA                                  | Z.                                    |                     | Month Day Year   |
| (1/88)   | Do Not Write Below This Line   |                                     |                                       |                     | <del></del>  |

TRANSPORTER

| Printed / Typed Name                                      | Signature 1 // /   | Month Day Year |
|---|--------------------|----------------|
| NANCY A CIDTEN  | Manua a Julen      | 10/12/19/      |
| 17. Transporter 1 Acknowledgement of Receipt of Materials | / ×                |                |
| Main Jeris  | Signature Mal July | Month Day Year |
| 18. Transporter 2 Acknowledgement of Receipt of Materials | 78                 |                |
| Printed/Typed Name  | Signature          | Month Day Year |
| 19. Discrepancy Indication Space                          |                    |                |
|   |                    |                |

Do Not Write Below This Line

20. Facility Owner or Operator Certification of receipt of hazarous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

DHS 8022 A (1/88)

EPA 8700-22

Å

(Rev. 9-88) Previous editions are obsolete.

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| _   | UNIFORM HAZARDOUS TO Generator's US EPA ID No.   | Manifest<br>Document No.   | .1  | - 1  | ation in the shaded  |
|-----|--|--|---|--|--|
|     | 3. Generator's Name and Mailing Address  | 910101318  |   | of 1 is not a<br>ate Manifest Docum                              | required by Federa<br>nent Number  |
|     | Allied-Signal Electrodynamics Division   |  |   | 884  | 57061  |
|     | 11600 Sherman Way, N. Hollywood 91605 4. Generator's Phone (818 503-3214   |  | 20.0  | ite Generator's ID<br>  A   H   Q   3   6                        | . n. v. o. n. a  |
|     | 5. Transporter 1 Company Name 6. US EPA ID N   | lumber   |   | ate Transporter's IC   |  |
|     | Disposal Control Service, Inc.  C A T 0 3 0 0  |  | -   | insporter's Phone  | 800-824-33   |
|     | 7. Transporter 2 Company Name 8. US EPA ID N   | lumber   |   | ite Transporter's ID   | N BRASIN   |
|     | 9. Designated Facility Name and Site Address 10. US EPA ID N   | lumber   | _   |  | 4,34   |
|     | Demenno Kerdoon  |  | U E-  | DAITOIS  | 160132   |
|     | 2100 N. Alameda Compton, CA 90222 ICIAITIOISIOIO   | Itlalalcia   |   | 13) 537-71   | 00   |
|     | 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)   | 12. Con  |   | 13. Total<br>Quantity  | 14.<br>Unit W  |
| 1   |  | No.  | Туре  | Quantity   | Wt/Vol State   |
|     | " Waste Coolant<br>Non-ECRA Hazardous Waste Liquid   |  |   |  | 2  |
|     | ·  | 0 0 1  | TIT   | 011500   | EPA/Oth  |
|     | b.   |  |   |  | State  |
|     |  |  | 1   |  | EPA/Oth  |
|     | c.   |  |   |  | State  |
|     |  |  |   |  | EPA/Oth  |
|     | d.   |  |   |  | State  |
|     |  |  |   |  | EPA/Oth  |
|     | J. Additional Descriptions for Materials Listed Above  | 6  | 1.  | 111  | Vastes Listed Abov   |
| - 1 | Madam Catalia All  |  | a.  |  | b  |
|     | Vater Soluble 011 Lubricating 011 Heter  15. Special Handling Instructions and Additional Information  |  | с.  | P- 01  | d.   |
|     | Lubricating 011  USE PROPER PERSONAL PROTECTIVE EQUIPMENT  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment and are classified, packed, marked, and labeled, and are in all respects in proper connational government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the to be economically practicable and that I have selected the practicable method of tree.   | dition for transport is volume and ***  volume and ***  atment, storage, or                              | c.<br>ccurately<br>by highw<br>y of was<br>disposal | ay according to ap<br>te generated to the<br>currently available | d. by proper shipping opticable internations degree I have det to me which minim   |
|     | Lubricating 011  Water  15. Special Handling Instructions and Additional Information  USE PROPER PERSONAL PROTECTIVE EQUIPMENT  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment and are classified, packed, marked, and labeled, and are in all respects in proper connational government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the  | dition for transport is volume and society atment, storage, or antity generator, I h                     | c.<br>ccurately<br>by highw<br>y of was<br>disposal | ay according to ap<br>te generated to the<br>currently available | d. by proper shipping opticable internations degree I have det to me which minim   |
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| +   | USE PROPER PERSONAL PROTECTIVE EQUIPMENT  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment and are classified, packed, marked, and labeled, and are in all respects in proper containing government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the to be economically practicable and that I have selected the practicable method of tree present and future threat to human health and the environment; OR, if I am a small que generation and select the best waste management method that is available to me and Printed/Typed Name  NANCY A. GIRTEN  17. Transporter 1 Acknowledgement of Receipt of Materials   | dition for transport is volume and society atment, storage, or antity generator, I h                     | c.<br>ccurately<br>by highw<br>y of was<br>disposal | ay according to ap<br>te generated to the<br>currently available | by proper shipping pplicable internation as degree I have det to me which minim ort to minimize my w   |
| +   | 15. Special Handling Instructions and Additional Information  USE PROPER PERSONAL PROTECTIVE EQUIPMENT  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment and are classified, packed, marked, and labeled, and are in all respects in proper connational government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the to be economically practicable and that I have selected the practicable method of tree present and future threat to human health and the environment; OR, if I am a small que generation and select the best waste management method that is available to me and Printed/Typed Name  NANCY A. GIRTEN  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Signature  Signature  | dition for transport is volume and society atment, storage, or antity generator, I h                     | c.<br>ccurately<br>by highw<br>y of was<br>disposal | ay according to ap<br>te generated to the<br>currently available | by proper shipping opticable internation a degree I have det to me which minimize my w   |
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Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

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|                         | UNIFORM HAZARDOUS  1. Generator's US EPA ID No.  WASTE MANIFEST  | Manifest<br>Document No.   |   |   |                                    | the shaded as<br>by Federal k  |
|-------------------------|--|--|---|---|------------------------------------|--|
| ı                       | 3. Generator's Name and Mailing Address A D 0 0 8 3 2 5 3 3 4 9  | 003  | A. SI   | ate Ma ifest Docu   | ment Nur                           | nber   |
| ı                       | Allied-Signal Electrodynamics Division   |  | B. St   | ate Generator's ID  | 5/1                                | 128  |
| l                       | 11600 Sherman Way, N. Hollywood, CA 91605  |  | 92° H   | اوامالالما  | واماء                              | ا ما ما دا   |
| ı                       | 5. Transporter 1 Company Name 503-3214 6. US EPA ID Numb   |  | 25V n. (275) b.                               | até Transporter's<br>ansporter's Phone                            | 0 77                               | 2146   |
|                         | 7. Transporter 2 Company Name 8. US EPA ID Number  |  | 0.00 EU 11                                    | ate Transporter's I   | D 800                              | -824-33  |
|                         | 9. Designated Facility Name and Site Address 10. US EPA ID Numb  |  | 17.01603                                      | ansporter's Phone   |                                    |  |
| l                       | Demenno Kerdoon  | oi .   | <b>u.</b> 5                                   | ate Facility's ID   | 1.1                                | 1111   |
|                         | 2100 N. Alameda St.  |  | H. Fa   | cility's Phone  |                                    |  |
|                         | Compton, CA 90222   C A T 10 8 0 0 1   | 3 3 5 2<br>125 Con   | tainers                                       | 213) 537-7  | 100                                |  |
|                         | 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)   | No.  | Туре  | Quantity  | Unit<br>Wt/Vo                      | The second secon |
| G                       | Waste Detunious 043  |  |   |   |                                    | State  |
| E<br>N                  | Waste Petroleum 011, n.o.s. Combustible Liquid UN 1270   | و اما ه  | - 1-  | שמעעס   |                                    | EPA/ONE  |
| E<br>R<br>A             | b.   | 001  | 1 1   | .,,,,   | 6                                  | State N/   |
| î                       |  | 111  |   | 1111  |                                    | EPA/Other  |
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| I                       |  | 111  | ١,  | 1194  | 1)                                 | EPA/Other  |
|                         | d.   |  | 1   |   |                                    | State  |
|                         |  |  | ١.  | l   |                                    | EPA/Other  |
|                         | J. Additional Descriptions for Materials Listed Above  |  | K. H  | andling Codes for V   | Wastes L                           | isted Above  |
|                         | Water Soldble 011 2%<br>Lubricating 011 20%  | 114  | C.  |   | The second second                  |  |
|                         | Lubricating 011 203 Hydraulic 011 603 Vator  15. Special Handling Instructions and Additional Information  | · f.t.   | , c.  | 14  |                                    | and the second   |
|                         | Lubricating 011 20% Hydraulic 011 60% Vator 15. Special Handling Instructions and Additional Information   | r., ,  | 6.  |   |                                    |  |
|                         | Lubricating 011 20%<br>Hydraulic 011 60%   | · t·t·   |   |   |                                    |  |
|                         | 15. Special Handling Instructions and Additional Information  USE PROPER PERSONAL PROTECTIVE EQUIPMENT  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment and are classified, packed, marked, and labeled, and are in all respects in proper condition  | are fully and a  | ccuratel                                      | y described above   | by prope                           | er shipping na<br>b international  |
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| A N<br>S<br>P<br>O<br>R | 15. Special Handling Instructions and Additional Information  USE PROPER PERSONAL PROTECTIVE EQUIPMENT  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment and are classified, packed, marked, and labeled, and are in all respects in proper condition national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volution be economically practicable and that I have selected the practicable method of treatment present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that Printed/Typed Name  Signature  17. Transporter Acknowledgement of Receipt of Materials  | n for transport<br>ume and toxicit<br>nt, storage, or<br>y generator, I h        | ccurately by highway of was disposa           | vay according to a<br>ste generated to the<br>currently available | pplicable<br>e degree<br>e to me v | I have deternational at I have determined at I have deter |
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9-88) Previous editions are obsolete.



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Department of Pollut Control and Ecology
P. O. Box 9583 Little Hock, Arkansas 72219
Telephone 501-562-7444



| PI     | ease print of type (Form designed for use on elite (12-pitch) typewriter.)  | Form Apy over CMB No. 2050-0039. Expires 9-30  |
|--------|---|--|
|        | UNSORM HAZARDOUS  WASTE MANIFEST  1. Generator's US EPA ID No.  Manifest Document No.  C  A  D  0  0  8  3  2  5  3  3  4  9  0  0  3   | o. 5 2. Page 1 Information in the shaded areas is no required by Federal law.  |
|        | 3. Generator's Name and Mailing Address Allied-Signal Electrodynamics Division 11600 Sherman Way, N. Hollywood, CA 91605  | AR- 449518  B. State Generator's ID  |
| П      | 4. Generator's Phone ( 818 ) 503-3214   | HAHQ 36032067 ·  |
|        | 5. Transporter 1 Company Name  Disposal Control Service, Inc.  C A T O O O A A A B O O B A A B O O B A A B O O B A A B O O B O O B A A B O O B O O B O O B O O B O O B O O B O O B O O B O O B O O O B O  | C. State Transporter's ID D. Transporter's Phone (800) 824-3345 E. State Transporter's ID  |
| П      |   | F. Transporter's Phone   |
|        | Designated Facility Name and Site Address     10. US EPA ID Number  | G. State Facility's ID   |
|        | Ensco, Inc.<br>American Road  | H. Facility's Phone  |
|        | El Dorado, AR 71730 A R D D 6 9 7 4 8 1 9   | 2 (501) 223-4100   |
|        | 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)  No.   | ontainers 13. 14. Unit I. Type Quantity Wt/Vol Waste No.   |
| ENER   | RQ Corrosive Liquid n.o.s., Corrosive MATERIAL UN 1760  | 1 D IF 0 10 10 15 15 G D007; D00   |
| A T O  |   | 1 D F 0 0 2 5 0 P N/A  |
|        | (Instapak)  OPOlymeric Diphenylmethane Diisocyanate  (Instapak)  UN 2489  | 2 D M O 10 12 10 10 P N/A  |
|        | RQ Waste Paint Related Material, Flammable Liquid (Paint Stripper)  NA 1263 0 0   | 1 D <sub>1</sub> F <sub>0</sub> 0 <sub>0</sub> 0 <sub>0</sub> 5 <sub>5</sub> 5 <sub>6</sub> D001   |
|        | J. Additional Descriptions for Materials Listed Above   11A)   Profile # 142719   11C)   Profile # 142718   11B)   Profile # 142721   11D)   Profile # 142720   # 11Q - 443 *   UC - 439  | K. Handling Codes for Wastes Listed Above  EMERGENCY RESPONSE INFORMATION:  DISPOSAL CONTROL SQUIPS IN  714) 983-0342  |
| I      | if no alternate TSDF, return to generator 116 - 558 11d - 222   | The same of the sa |
|        | 15. Special Handling Instructions and Additional Information  | 1025   |
|        | USE PROPER PERSONAL PROTECTIVE EQUIPMENT  | 1395   |
|        | 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately of packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable I sas state regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste general ticable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste general available to me and that I can afford. | international and national government regulations and Arkan-<br>ated to the degree! have determined to be economically prac-<br>minimizes the present and future threat to human health and  |
| Y      | NANCY A. GIRTEN Signature   | uten 11 1 13 9   |
| TRANS  | Printed Typed Name  | South Day Year   |
| PORT   | 18. Transporter 2 Acknowledgement of Receipt of Materials   |  |
| E<br>R | Printed/Typed Name Signature  | Month Day Yea  |
| F      | 19. Discrepancy Indication Space  |  |
| FACIL  | added NR to Block I Documentation   | onfile   |
| Ť      | Printed/Typed Name  Signature  Signature  | Item 19. Month Day Yea   |
| Ĺ      | A Form 8700-22 (Rev. 9-88) Previous edition is obsolete.  | lessey IIII 2019   |
|        | A CULTI D/UU-22 (Dev. 3-00) FIEVIUIS POHOD IS ODSOIPIE. /   | ~  |

| UNIFORM HAZARDOUS WASTE MANIFEST   | Generator's US EPA ID No.  | Manifest<br>Document No.   | 2. Pag<br>of   | intottile  |  | ne shaded :<br>by Federal  |
|--|--|--|--|--|--|--|
| 3. Generator's Name and Mailing Address  | C'A'D'0'0'8'3'2'5'3'3'<br>Namics Division  | 9 0 0 3 4  | A. State   | Manifest Docum   | 570  | 56   |
| 11600 Sherman Way, N. 1<br>4. Generator's Phone (818) 503-221  | Hollywood, CA 91605  |  | u i  | م او ام اسل  | او ام ا  | ما ما د  |
| Disposal Control Service   | Inc.  C A T 0 3 0  | 3 4 1 8 4  | D. Trans   | porter's Phone   | 113  | 005  |
|  | 8. US EPA ÎD Î   | lumber   | 17.1- THOUGH   | STATE OF THE PARTY.  | LOUU   | ) 824-   |
| 9. Designated Facility Name and Site Address  Demenno Kardoon  | 10. US EPA ID I  | lumber   | 1/   | 11708  | 3010   | 447  |
| 2100 N. Alameda<br>Compton, CA 90222   | ICIAITI O ISI O I  | 11333512   | 1  | /2121 52   | 7-71   | 00   |
|  | ping Name, Hazard Class, and ID Number)  | 12. Con<br>No.   | ainers<br>Type   | 13. Total<br>Quantity  | 1 .<br>Unit<br>Wt/Vol  | Wa   |
| Hazardous Waste I fould m  | 1.0.5. ORM-F   |  |  |  | 7  | State EPA/Q  |
| (Waste Coclant)  | NA 9189  | 0 0 1  | TIT  | 2000   | 6  | State N/   |
|  | REGIMISM   |  |  | <u> </u>   |  | EPA/Othe   |
| °.   | Regnarial  |  |  |  |  | State<br>EPA/Othe  |
| d.   | NOV 2 1 1990   |  |  |  |  | State  |
| HE   | EALTH, SAFETY AND  |  | 1  |  |  | EPA/Othe   |
|  | ENVIRONMENTAL  |  | K. Handi   | ing Codes for W  | astes Li<br>b.   | sted Above   |
| Lubricating Oil  | in second of the second second second  |  | c /  | -01  | đ.   |  |
| 15. Special Handling Instructions and Additional   | I Information .  |  | 100  |  |  | The said   |
| USE PROPER PERSONAL PROT   | ECTIVE EQUIPMENT   |  |  |  | 777  |  |
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|  | Signature  | T That I can afford.   |  |  | · · · · · · · · · · · · · · · · · · ·  | Month  |
| ANCY A GIGTEN  17. Transporter 1 Acknowledgement of Receipt  | of Materials   | azell fo   | ett.   |  |  | إلإالها  |
| Lox Docco  | Signature Signature  |  | and the same   | `  |  | Month  |
| NG ULS UMBERGEN MERSONNE EK  | Signature  |  | <del>//</del>  |  |  | Month  |
| 19. Discrepancy Indication Space   | <b>\</b>   |  | ·  |  |  |  |
|  |  |  |  |  |  |  |
| 20. Facility Owner or Operator Certification of re   | eceipt of hazardous materials covered by   | this manifest excep  | t as noted i   | n Item 19.   |  | Month  |
|  | 3. Generator's Name and Mailing Address  Allied-Signal Electrody 11600 Sherman Way, N. 4. Generator's Phone (912) 503-321- 5. Transporter 1 Company Name  Disposal Control Service 7. Transporter 2 Company Name  9. Designated Facility Name and Site Address Demenno Kardoon 2100 N. Alameda Compton CA 90222  11. US DOT Description (Including Proper Ship a.  Hazardous Waste Liquid (Waste Coolant)  c.  d.  GENERATOR'S CERTIFICATION: I hereb and are classified, packed, marked, and la national government regulations.  If I am a large quantity generator, I certify t to be economically practicable and that I h present and future threat to human health present and select the best waste mane  Printed/Typed Name  13. Transporter 1 Acknowledgement of Receipt Printed/Typed Name  14. Transporter 2 Acknowledgement of Receipt Printed/Typed Name  15. Transporter 2 Acknowledgement of Receipt Printed/Typed Name  16. Discrepancy Indication Space | WASTE MANIFEST 3. Generator's Name and Melling Address Allied-Signal Electrodynamics Division 11600 Sherman May, N. Hollywood, CA 91605 4. Generator's Phone (912) 503-3214 6. US EPA ID N Disposal Control Service, Inc. ICAI Tol 31 old 7. Transporter I Company Name 9. Designated Facility Name and Site Address 10. US EPA ID N Demenno Kardoon 2100 N. Alameda Compton, CA 90222 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) 8. HAZARDOUS Waste Liquid n.e.s., ORM-E (Waste Coolant) 1. Additional Descriptions for Materials Listed ALENVIRONMENTAL Water 90 Walls 011 Lubricating 011 Water 16. Special Handling Instructions and Additional Information  USE PROPER PERSONAL PROTECTIVE EQUIPMENT 16. GENERATOR'S CERTIFICATION: I heraby declare that the contents of this consignand are classified, packed, marked, and labeled, and are in all respects in proper constitutional government regulations. If I am a large quantity generation bursed has the waste ended the precisible method of the present and future threat to human health and the service of the precision of the present of the treat to human health and the service of the precision of the present of the treat to human health and the service of the precision of the present of the precision of the present of the present of the present of the present on the present of the present o | ANIFEST  All fed-Signal Electrodynamics Division  11600 Sherman Hay, N. Hollywood, CA 91605  5. Transporter 1 Company Name  6. US EPA ID Number  16. Transporter 2 Company Name  9. Designated Facility Name and Site Address  10. US EPA ID Number  118. Descent Facility Name and Site Address  10. US EPA ID Number  119. Descent Facility Name and Site Address  10. US EPA ID Number  119. Descent Facility Name and Site Address  10. US EPA ID Number  110. N. Alameda  111. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)  112. Company Name  113. Additional Description (Including Proper Shipping Name, Hazard Class, and ID Number)  114. Waster Cooleant  115. Special Handling instructions and Additional Information  116. Special Handling instructions and Additional Information  117. Special Handling instructions and Additional Information  118. Proper Personal Protective Equipment  119. Special Handling instructions and Additional Information  119. Discrepancy Indication Space  120. Facility Owner or Operator Certification of receipt of Materials  121. Fanisher Printed Typed Name  122. Facility Owner or Operator Certification of receipt of Materials  123. Facility Owner or Operator Certification of receipt of Materials  124. Facility Owner or Operator Certification of receipt of Materials  125. Facility Owner or Operator Certification of receipt of Materials  126. Facility Owner or Operator Certification of receipt of Materials  127. Facility Owner or Operator Certification of receipt of Materials | WASTE MANIFEST  A. Generator's Name and Medifing Address  A. State  All led-Signal Electrodynamics Division  11600 Sherman Way, N. Hollywood, CA 91605  B. State  A. S | WASTE MANIFEST  Allied-Signal Electrodynamics Division  11600 Sherwan Nay, N. Hollywood, CA 91605  Remetaris Phone (gr) 503-3214  B. State Generator's Division  B. State Transporter's Frome  C. State Tr | WASTE MANIFEST  Allied-Signal Electrodynamics Division  11600 Shervan Ray, N. Hollywood, CA 91605  Allied-Signal Electrodynamics Division  11600 Shervan Ray, N. Hollywood, CA 91605  5. Transporter   Compainy Rame 93 - 2214  6. Transporter   Compainy Rame 93 - 2214  7. Transporter   Compainy Rame 93 - 2214  7. Transporter   Compainy Rame 94   California   California |

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| WASTE MANIFEST CAORDE  |  | Manifest<br>Document No   | 1 2  |   |                                     | in the shade<br>red by Feder   |
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| 1600 MONANIAY WELLKUSSEY,  | 21605  |   | 32 20 July 1975                                | te Generator                                  |                                     |  |
| 4. Generator's Phone (6/6) 765-70/0  |  |   |  | 4 4 DI  | THE REAL PROPERTY.                  | 200  |
| 8. Transporter 1 Company Name 8. DISPOSAL CONTROL SECVICE  |  |   | 012000000000000000000000000000000000000        | nsporter's Ph                                 | Ref. 2017 31 20 10 10               | 1. 12.   |
| 7. Transporter 2 Company Name 8.   | US EPA ID Numb   | er  | 20 A 10  | te Transporte                                 |                                     | n 10 11  |
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| 9. Designated Facility Name and Site Address 10  | . US EPA ID Numb   | er  | G. Sta   | te Facility's                                 | ID F                                | 11   |
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| 11. US DOT Description (Including Proper Shipping Name, Hazard   | Class, and ID Number)  |   | Type   | Quant   | tity Ur                             | nit 1  |
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THE NATIONAL RESPONSE

Department of Health Services

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|   | WASTE MANIFEST  3. Generator's Name and Mailing Address Allied-Signal, Electrodynam 11600 Sherman Way, N. Holly 4. Generator's Phone B18 ) 503-3214  5. Transporter 1 Company Name  Disposa Control Service, II  7. Transporter 2 Company Name  9. Designated Facility Name and Site Address  Demenno Kerdoon 2100 N. Alameda Street Compton, CA 90222  11. US DOT Description (Including Proper Shipping Name   | 6. US EPA<br>10. IC   A   T   O   3   11<br>8. US EPA   | A ID Number                                     | 6   1   8   4                                    | B. St. C. St. D. Tr. E. St. F. Tr. | ate Generator  A H Q   ate Transporter's Plate Transporter's Plate Transporter's Plate Transporter's Plate Transporter's Plate Facility's  | 3 6 er's ID                | 70  | 52   |
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|   | Additional Descriptions for Materials Listed Above   |   |   | 111  |                                    |  |                            | 1-  | T V) Other   |
|   | Hydraulic 011 60%  |   |   |  | a.                                 | indling Codes  | for Wa                     | b.  | ed Above   |
|   | Hydraulic 011 60% Water 208  15. Special Handling Instructions and Additional Information  | lion  |   | *  | a.                                 |  | for Wa                     | b.  | ed Above   |
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(Rev. 9-88) Previous editions are obsolete.

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| ı                          | 4. Generator's Phone (6)   |  | B. Sta                             | ite Generator's                                  | Ю                        |  |  |  |  |  |
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of California—Health and Welfare Agency pproved OMB No. 2050—0039 (Expires 9-30-91) print or type. (Form designed for use on elite) itch typewriter). 2. Page 1 Information in the shaded areas Manifest enerator's US EPA ID No. is not required by Federal law. **Document No** UNIFORM HAZARDOUS WASTE MANIFEST A. State Manifest Document Number 3. Generator's Name and Mailing Address Allred Secol, blocker B. State Generator's ID 11 ( ) Herrier Way

13. Holly pore (4) ( # 91605

4. Generator's Phone (4) 9 50 3 - 32 AMA 3 401312101 C. State Transporter's ID US EPA ID Number 5. Transporter 1 Company Name D. Transporter's Phone 1-800-852-7550 18003412 E. State Transporter's ID US EPA ID Number 7. Transporter 2 Company Name F. Transporter's Phone US EPA ID Number 10. Designated Facility Name and Site Address NOEKIS LAVIKONMENTAL 5615 S. BOYLE AVENUE (213) 28 CA101019171013101919 VERNON. CA GOOSY Waste No. 12. Containers Unit Quantity US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Wt/Vol Type PAZLASTE LIGHTALO.S. (WASTE PHELL SURFAMATE) MAZARDOUS TE LIWID NES CENTER 1-800-424-8802; ACTEL SCEFFER ! DRM-GINK9189 EPA/Oth CONSTR COSIUM SIGNEOMATE/MINIC CONTRE CLOUID J. O EPA/Othe COUNSTE TIS FLUORORUE) (24) Wastes Listed Abov J. Additional Descriptions for Materials Listed Above 11A) Nickel Sulfamate - Approval # E1205AC3
11B) Nickel Sulfamate - Approval # E1205AC3
1C) redium Bichaumate - Approval # E1205CR2 b. RESPONSE TINFluotiente - Approval = E1205AC4 NATIONAL 15. Special Handling Instructions and Additional Information PERSONE PROTECTIVE EURINEUT INCFER ͳ CALL GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. 16. SPILL, If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste conception and select the best weste measurement method that is evaluable to me and that I am afford e B generation and select the best waste management method that is available to me and that I can afford. EMERGENCY Signature Printed/Typed Name TEA Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Z ANSPOR P 18. Transporter 2 Acknowledgement of Receipt of Materials Year Day Month Signature Printed/Typed Name 19. Discrepancy Indication Space ACI 20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Month Day Printed/Typed Name TIN VE CKSOO Do Not Write Below this Line

DHS 8022 A (1/88)

EPA 8700---22 (Rev. 9-88) Previous editions are obsolete.

11.009326

Department of Health Sen



Department of Pollut Control and Ecology P. O. Box 9583 Little Rock, Arkansas 72219 Telephone 501-562-7444

| 4           | Telephone 501-562-7444   |                               |                   | Form Approx                       | ed. OMB No. 205                                  | 0-0039. Expires 9-30-91                        |
|-------------|--|-------------------------------|-------------------|-----------------------------------|--|--|
| lea         | use print or type. (Form designed for use on elite (12-pitch) typewriter.)   | √o. M                         | anifest           | 2. Page 1                         |  | he shaded areas is not                         |
|             | UNIFORM HAZARDOUS WASTE MANIFEST  3. Generator's Name and Mailing Address  | <u>)</u> 5 3 3 4 1 9 1        | DISIP<br>Twent No | of 3                              | required by Federat Document Number              |  |
|             | Allied-Signal Merospace-Electrodynam   | ics Duision                   |                   | AR- 4 B. State Gener              | 49516  |  |
|             | 1.600 Shorman Way 4. Generator's Phone (818) 503-3606 No Holly 5. Transporter 1 Company Name 6.  | word Cagif                    | 50X               |                                   | ortoria ID                                       |  |
|             | 5. Transporter 1 Company Name  5. Transporter 1 Company Name  6. [A]   | USEPAIDNUME<br>ITIOIS OIOISIU | 1/814             | C. State Transporter              | s Phone 1:XCC                                    | с н<br>>-877-3773                              |
|             | 7. Transporter 2 Company Name 8.   | US EPA ID Numb                | per               | E. State Transp<br>F. Transporter | <u> </u>   | с н  |
|             | Designated Facility Name and Site Address     10.  | US EPA ID Numb                | er                | G. State Facilit                  | y's ID   |  |
|             | American Rd  | Name of Table 18              |                   | H. Facility's Pr                  | ) 222·41   |  |
|             | 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Nu  | 1016971418<br>mber)           | 12. Conta         | iners                             | 13. 14.<br>Total Unit                            | n never sija damen va                          |
| G           | a. waste corrisive Liquid, NOS, will   |                               | No.               | Type C                            | Quantity Wt/Vo                                   | Waste No.                                      |
| E<br>N<br>E | UN 1760 - Lab Packed material  | 300 11101111111               |                   | QF 1                              | 1 1 15 5   | D002   |
| R<br>A<br>T | · Hazardar) weste liquid NOS. ORM &  | <u> </u>                      |                   |                                   |  | NR   |
| O<br>R      | NIA 9189 Cas Packed material   |                               | 111               | DIF                               | 11122  | 70/74  |
|             | c.   |                               |                   |                                   |  | A A Section 1                                  |
|             | d.   |                               |                   |                                   | <del>                                     </del> |  |
|             |  |                               |                   |                                   | 111  |  |
|             | J. Additional Descriptions for Materials Listed Above  1. Lal Packed dryn #7 SCL Affected /13  | st 1x5991                     | , , ,             | 1                                 | odes for Wastes List<br>Y RESPONSE IN            |  |
|             | 5- Cab Packed down # 8 see affected lis  |                               |                   | ,                                 | e.   |  |
|             | if no alternate TSDF, return to generator  15. Special Handling Instructions and Additional Information  | # 14496                       | حر -              |                                   |  |  |
|             | ,  | •                             | O                 | ,                                 |  |  |
|             | use appropriate personal Protecti  |                               |                   |                                   | 1 609  | ? <u>0                                    </u> |
|             | 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this<br>packed, marked, and labeled, and are in all respects in proper condition for transposas state regulations.  | ort by highway according to a | pplicable into    | ernational and r                  | ational government                               | regulations and Aman                           |
|             | sas state regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce ticable and that I have selected the practicable method of treatment, storage, or d the environment; OR, if I am a small quantity generator, I have made a good fai |                               |                   |                                   |  |  |
| l           | available to me and that I can afford.  Printed/Typed Name   | Signature                     | 1 H               |                                   |  | Month Day Year                                 |
| 1           | Danilo Gotieria  | 1 Chant                       |                   | >                                 |  | 09037  |
| T<br>R      | 17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  | Signature                     |                   | <b>1</b>                          |  | Month Day Year                                 |
| ANSP        | Jimmy Lizardo  | 1 June                        | 4 9               | Lugar                             | <u> </u>   | OPIOSAL  |
| RANSPORTER  | 18. Transporter 2 Acknowledgement of Receipt of Materials  Printed Typed Name  HW HS LAW KOLON AT  | Signature                     |                   |                                   | >  | Month Day Year                                 |
| R           | 19. Discrepancy Indication Space   | June C                        | ,                 |                                   |  |  |
| FACI        |  | •                             |                   |                                   |  |  |
| L           | 20. Facility Owner or Operator: Certification of receipt of hazardous materials cover  | red by this manifest except a | s noted in the    | em 19.                            | `  | •  |
| Ť           |  | Signiture                     |                   | OL                                | ) [ ]  | Month Day, Gear                                |
|             | Printed Typed Name  KATHERINE R. SWITH   | Vatter                        | MLI               | 1.4                               | with (   | 11/1/1414                                      |

EPA Form 8700-22 (Rev. 9-88) Previous edition is obsolete.

NOTICE: THE ORIGINAL AND NOT LESS THAN TWO (2) COPIES MUST MOVE WITH THE HAZARDOUS WASTE SHIPMENT. ONCE DELIVERED, THE TREAT-MENT/STORAGE/DISPOSAL FACILITY MUST RETURN THIS ORIGINAL COPY TO THE GENERATOR.



Department of Polir CoControl and Ecology P. O. Box 9583 Little wock, Arkansas 72219 Telephone 501-562-7444

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved, OMB No. 2050-0039, Expires 9, 30, 0

| -           | ease plint of type: 1. Com designed for use on eine (12-pitch) ty  | (pewiner.)                                |                        |             | approvea. Омв                                |             |                      |
|-------------|--|---|------------------------|-------------|--|-------------|----------------------|
|             | WASTE MANIFEST CALLO   | SUS EPA ID NO.<br>10181312151313141   POI | Manifest<br>cument No. |             | required                                     | by Fedi     |                      |
|             | 3. Generator's Name and Mailing Address Allied-Signal Allosiace- Electr  | odrugmics Divis                           | ion                    |             | Manifest Document 4495                       |             | er                   |
|             | 11600 sherman way No Hollyw  | 201 CA 91605                              |                        | -           | Generator's ID                               | LU          |                      |
|             | 4. Generator's Phone (817) 5-3-3626  |   |                        | ŀ           | 1) 0083                                      | 25          | 734                  |
|             | 5. Transporter 1 Company Name DISCOSG/ Control Service   | 6. US EPA ID Num                          |                        |             | Transporter's ID                             | P           | C1130H 87            |
|             | 7. Transporter 2 Company Name  | 1CIATIO1810101314                         | 111814                 |             | porter's Phone                               | >0 8        | 77-3773              |
|             |  | O. USEPAID NUM                            | ber l                  |             | Transporter's ID                             | P           | 2 H                  |
|             | Designated Facility Name and Site Address  | 10. US EPA ID Num                         | ber                    | -           | Facility's ID                                |             | -                    |
|             | Ensca Inc.<br>American Rd.   |   |                        |             |  |             |                      |
|             | El Osrado AK 71730   | 1AK DO161971418                           | 11 912                 |             | ty's Phone                                   | 34          | 100                  |
|             | 11. US DOT Description (Including Proper Shipping Name, Hazard Clas.   |   | 12. Conta              | 1           | 13.<br>Total                                 | 14.<br>Unit | 1.                   |
| G           | ewaste flammable liquid, Nos.  | C/. // /:-:/                              | No.                    | Туре        | Quantity                                     | Wt/Vol      | Waste No.            |
| E<br>N<br>E | UN 1993, Las Packed material (i  | 1001)                                     | I .                    | Dim         | 1 5 0  | 9           | D00 1<br>F005 F021   |
| A           | b.waste compressed 591, nos fi   | lammask gas                               |                        |             | 1 1.1.1.                                     |             | 1005                 |
| O<br>R      | 010 1954 Eas lacked material   | (DO 21)                                   |                        | DIM         | 1115   | 9           | F002                 |
|             | · Hazardas waste solid, nos orm  | E NA 9189                                 |                        |             |  |             | ,                    |
|             | Lab Packed material  |   | 1, 2                   | DF          | 1 1 1418                                     | P           | D008                 |
|             | a Hazardas waste solidins. Dim. 6  | NA 9189                                   |                        |             |  |             | · _                  |
|             | Lab Packed materials   |   | 12                     | DIF         | 1 1816                                       | P           | NR                   |
|             | J. Additional Descriptions for Materials Listed Above  A-Lab Cacked drums # 1, 2, 4 sec attach  b-Lat Cachen drums # 9  Sec attach   | hed list 3x55 99/                         |                        | K. Handi    | ing Codes for Wast                           |             |                      |
|             | b-lat liched droms # 9 see attack e-tas lacked droms # 3.6 see attack e-tas lacked droms # 3.6 see attack e-tas lacked droms # 5.10 see attack   | hed list 1x5 19/<br>hed list 1x5 and 1x30 | 991                    | EMERG       | ENCY RESPONS                                 | SE INFO     | PRMATION:            |
|             | if no alternate TSDF, return to generator  | 536 11b-12                                | t                      |             |  | · " ' · · . |                      |
|             | 15. Special Handling Instructions and Additional Information Pro F. I  | number - 1449                             | 168                    | IIC-        | - ITI *                                      | Ik          | 1-134#               |
|             | Use appropriate Personal Pr  |   | •                      |             |  | $\gamma$    | 20                   |
|             |  |   |                        |             |  | 240         | X()                  |
|             | GENERATOR'S CERTIFICATION: I hereby declare that the conte<br>packed, marked, and labeled, and are in all respects in proper condition<br>sas state regulations.   | for transport by highway according to ap- | piicable inte          | rnational a | nd national govern                           | ment reg    | gulations and Arkan- |
|             | If I am a large quantity generator, I certify that I have a program in place ticable and that I have selected the practicable method of treatment, stopped to the program of the program o |   |                        |             |  |             |                      |
|             | the environment; OR, if I am a small quantity generator, I have made available to me and that I can afford.  | a good faith effort to minimize my wast   | e generation           | and selec   | t the best waste r                           | nanager     | nent method that is  |
| V           | Printed/Typed Name Danis 5 Jillicz   | Signature 1 4                             | 5                      | <i>Y</i>    |  | М           | onth Day Year        |
| Ţ           | 17. Transporter 1 Acknowledgement of Receipt of Materials  | 1 /m Fl                                   | h 1                    | <u> </u>    | )  |             | 01910151910          |
| R<br>A<br>N | Printed/Typed Name   | Signature                                 | Λ -                    | _           |  | м           | onth Day Year        |
| S<br>P      | Simmy Lizardo  | - I may                                   | J.,                    | ande        | 5  |             | 0910591              |
| O<br>R<br>T | 18. Transporter 2 Acknowledgement of Receipt of Materials Printed Typed Name   | Signature                                 |                        |             |  |             | onth Day Your        |
| E<br>R      | AMB3 LAWRONCE  | Jenne                                     | L.                     | Leu         |  | <i>M</i>    | onth Pay Year        |
|             | 19. Discrepancy Indication Space   |   |                        |             |  |             | <u> </u>             |
| F<br>A<br>C |  | <b>5</b>                                  |                        |             |  |             |                      |
| į           |  |   |                        |             |  |             |                      |
|             | 20. Facility Owner or Operator: Certification of receipt of hazardous materi   | als covered by this manifest except as n  | oted in Item           | 19          |  |             |                      |
| Ţ           |  |   |                        |             | <u>/ /                                  </u> |             |                      |
| v<br>+      | LATTO P. Suit  | Signature                                 | rine                   |             | $\left( \frac{1}{2} \right) = 1$             | / Mo        | onth Day Year        |

| •  | UNIFORM HAZARDOOS  | lanifest<br>ument No.  | 2.   | 1   |  |                       | he shaded are<br>by Federal la   |
|--|--|--|--|---|--|-----------------------|--|
|  | 3. Generator's Name and Mailing Address  | 0 2 4  | A. Ste   | ate Manifest [  |  |                       |  |
|  | ALLIED-SIGNAL AEROSPACE CO - ELECTRODYNAMICS DIVIS   | ION  | 100  | 88  | 4  | 570                   | 144  |
|  | 11600 SHERMAN WAY, NORTH HOLLYWOOD, CA 91605 4. Generator's Phone (818) 765-1010   |  |  | ate Generator   |  |                       |  |
|  | 5. Transporter 1 Company Name 8. US EPA ID Number  |  | C. St  | A H O   | 3 16<br>er's ID  | 03                    | 2067   |
|  |  | 184  |  | insporter's Pr  | Carlotte Month   | 300-8                 | 24-3345  |
|  | 7. Transporter 2 Company Name 8. US EPA ID Number  |  | Part College                                     | ate Transporte  | 27.7   |                       |  |
|  | 9. Designated Facility Name and Site Address 10. US EPA ID Number  |  | - Vinc.  | ansporter's Phate Facility's  |  | 1                     |  |
|  | HORRIS ENVIRONMENTAL   |  | 1.44   | IA ID ID IS   |  | 165                   | 838-0  |
|  | 5215 S. BOYLE AVENUE   |  |  | cility's Phone  |  | 19.13                 | W 13 13 13   |
|  | VERNON, CA 90058 C A D IO 19 17 IO 13 IO   |  |  | 213) 588  | _  | _                     |  |
|  | 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)   | 12. Con  | Type   | f3. Total<br>Quant  |  | 14.<br>Unit<br>Wt/Vol | Wast   |
|  | CYANIDE SOLUTION n.o.s. POISON B   | 140.   | 1,900  | <del>                                     </del>                          |  | W(7 VO)               | State 711  |
|  | III a distant  |  |  |   |  |                       | EPA/Other  |
|  | rwr  | Or 1   | U F  | 00181   | 0  | 6                     | 9  |
|  | <b>b</b> .   |  |  |   |  |                       | State  |
|  | i e  | 111  |  | 111   | ı  |                       | EPA/Other  |
|  | C.   | 1 1 1  | <del>                                     </del> |   |  |                       | State  |
|  | *  |  |  |   |  |                       | EPA/Other  |
|  | d.   |  |  |   |  |                       | State  |
|  |  |  |  |   |  |                       | ======   |
|  | •  | 11   | 1  | 1.1.1   | 1  |                       | EPA/Other  |
|  | J. Additional Descriptions for Materials Listed Above  a- PROFILE - E1205CN1 - CYANIDE PLATING SOLUTION  |  | K. Ha  | Andling Codes   | for W  | d.                    | isted Above  |
|  |  |  | <b>a</b> .                                       | 15  |  | d.                    |  |
|  | a- PROFILE - E1205CH1 - CYANIDE PLATING SOLUTION   |  | <b>a</b> .                                       | 15  |  | d.                    |  |
|  | a- PROFILE - E1205CN1 - CYANIDE PLATING SOLUTION  15. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.   |  | <b>a</b> .                                       | 15  |  | d.                    |  |
|  | a- PROFILE - E1205CN1 - CYANIDE PLATING SOLUTION  15. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are   |  | c.   | 15 (17 x  | bove I   | d.                    | or shipping na   |
|  | a- PROFILE - E1205CN1 - CYANIDE PLATING SOLUTION  15. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.  16.  |  | c.   | 15 (17 x  | bove I   | d.                    | er shipping na   |
|  | a- PROFILE - E1205CN3 - CYANIDE PLATING SOLUTION  15. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition fo national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment,  | and toxicit  | c. c         | y described a vay according   | bove I   | b. d.                 | er shipping nai<br>international   |
|  | a- PROFILE - E1205CN1 - CYANIDE PLATING SOLUTION  15. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition fo national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume   | e and toxicit<br>storage, or<br>enerator, I h                  | c. c         | y described a vay according   | bove I   | b. d.                 | er shipping nai<br>international   |
| The second secon | a- PROFILE - E1205CN3 - CYANIDE PLATING SOLUTION  15. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition fo national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I certified/Typed Name   | e and toxicit<br>storage, or<br>enerator, I h                  | c. c         | y described a vay according   | bove I   | b. d.                 | er shipping nai<br>international   |
| The second secon | a- PROFILE - E1205CN3 - CYANIDE PLATING SOLUTION  15. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition fo national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I certify the particular of the program of the pr | e and toxicit<br>storage, or<br>enerator, I h                  | c. c         | y described a vay according   | bove I   | b. d.                 | or shipping na<br>international<br>of have detern<br>which minimize<br>nimize my was   |
|  | a- PROFILE - E1205CN3 - CYANIDE PLATING SOLUTION  15. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition to national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I c  Printed/Typed Name  DANILO F. GUTIERREZ  17. Transporter 1 Acknowledgement of Receipt of Materials  | e and toxicit<br>storage, or<br>enerator, I h                  | c. c         | y described a vay according   | bove I   | b. d.                 | er shipping nai<br>international<br>a I have detern<br>which minimize<br>himize my was   |
|  | a- PROFILE - E1205CN3 - CYANIDE PLATING SOLUTION  15. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition fo national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I certify the particular of the program of the pr | e and toxicit<br>storage, or<br>enerator, I h                  | c. c         | y described a vay according   | bove I   | b. d.                 | er shipping nai<br>international<br>a I have detern<br>which minimize<br>himize my was   |
| The second secon | a- PROFILE - E1205CN3 - CYANIDE PLATING SOLUTION  15. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition to national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I c  Printed/Typed Name  DANILO F. GUTIERREZ  17. Transporter 1 Acknowledgement of Receipt of Materials  | e and toxicit<br>storage, or<br>enerator, I h                  | c. c         | y described a vay according   | bove I   | b. d.                 | er shipping nai<br>international<br>a I have detern<br>which minimize<br>himize my was   |
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|  | a- PROFILE - E1205CN1 - CYANIDE PLATING SOLUTION  15. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition for national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I c  Printed/Typed Name  DANILO F. GUTIERREZ  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Signature  | e and toxicit<br>storage, or<br>enerator, I h                  | c. c         | y described a vay according   | bove I   | b. d.                 | or shipping natinternational of have determined him minimize my was month. Do Month. D |
|  | a- PROFILE - E1205CN3 - CYANIDE PLATING SOLUTION  15. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition to national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, present and future threat to human health and the environment; OR, If I am a small quantity generation and select the best waste management method that is available to me and that I certified/Typed Name  DANILO F. GUTIERREZ  17. Transporter 1 Acknowledgement of Receipt of Materials  Signature  18. Transporter 2 Acknowledgement of Receipt of Materials   | e and toxicit<br>storage, or<br>enerator, I h                  | c. c         | y described a vay according   | bove I   | b. d.                 | or shipping na international of have detern which minimize my was month. Do  |
|  | a- PROFILE - E1205CN1 - CYANIDE PLATING SOLUTION  15. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition for national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I c  Printed/Typed Name  DANILO F. GUTIERREZ  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Signature  | e and toxicit<br>storage, or<br>enerator, I h                  | c. c         | y described a vay according   | bove I   | b. d.                 | or shipping na international of have detern which minimize my was month. Do  |
|  | a- PROFILE - E1205CN1 - CYANIDE PLATING SOLUTION  15. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition for national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I c  Printed/Typed Name  DANILO F. GUTIERREZ  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Signature  | e and toxicit<br>storage, or<br>enerator, I h                  | c. c         | y described a vay according   | bove I   | b. d.                 | or shipping narinternational at have determined the which minimize my was month. De Month De Month De  |
|  | a- PROFILE - E1205CN1 - CYANIDE PLATING SOLUTION  15. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition for national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I c  Printed/Typed Name  DANILO F. GUTIERREZ  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Signature  | or transport  and toxicit storage, or enerator, I h an afford. | c. c         | y described a vay according at e generated I currently ave de a good fait | bove to the approximation of t | b. d.                 | or shipping narinternational at have determined the which minimize my was month. De Month De Month De  |

| 3. Generator's Name and Mailing Address   | A D O O 8 3 2 5 3 3 4 9  | 0 0 2 3  |                                      | is not r  |   | by Federa  |
|---|--|--|--------------------------------------|---|---|--|
| ALLIED-SIGNAL AEROSPACE<br>11600 SHERMAN WAY, NORTH   | HOLLYWOOD. CA 91605  | DIV.   | B. State                             | 884;<br>Generator's ID  | <u> 570</u>                                 | 42   |
| 4. Generator's Phone ( 818) 765-1010  5. Transporter 1 Company Name   | 6. US EPA ID Numb  | er   | C State                              | H IO 3 6<br>Transporter's II  | 0 3   | 2 0 6  |
| DISPOSAL CONTROL  | I Q A TIQI 3101013   |  |                                      | sporter's Phone   | (800  | 1824   |
| 7. Transporter 2 Company Name   | 8. US EPA ID Numb  | er .   |                                      | Transporter's ID  |   |  |
| 9. Designated Facility Name and Site Address  | 10. US EPA ID Numb   | er<br>•  |                                      | e Facility's ID   | - WI  | 338-   |
| NORRIS ENVIRONMENTAL<br>5215 S. Boyle Avenue  |  |  | H. Facil                             | ity's Phone   | 7 10  | 3 10 19  |
| Vernon, CA 90058  | C   A  D  0  9  7  0  3  | 12. Cont   |                                      | i3. Total   | 111   |  |
| 11. US DOT Description (Including Proper Shippin  | ng Name, Hazard Class, and ID Number)  | No.  | Туре                                 | Quantity  | Unit<br>Wt/Vol                              |  |
| R.Q. HAZARDOUS WASTE LIQ<br>NA 9189 (DOG6)(CYANIDE R  | UID, n.o.s. ORMA<br>INSEWATER)   | 111  | TIT                                  | 1 141715  | 6   | State EPA/Oth  |
| u.  |  |  |                                      |   |   | State EPA/Oth  |
| c.  |  |  |                                      |   |   | State  |
|   |  |  |                                      |   |   | EPA/Oth  |
| d.  | ,  |  |                                      |   |   | State  |
|   |  | 125  |                                      |   |   | EPA/Oth  |
|   |  |  | <u> </u>                             |   | / I   |  |
| J. Additional Descriptions for Materials Listed Ab  | NO - Cyanile Ri  | 150  | c.                                   | dling Codes for W   | b.  | isted Abo  |
| J. Additional Descriptions for Materials Listed Ab  A - Profile 6/205 C   | NO - cyanile Ri  | 150  | 8.                                   | aling Godes for W   | b.  | isted Abor   |
| 15. Special Handling Instructions and Additional In   | NO - Cyanile Riv   | 136  | 8.                                   | aling Godes for w   | b.  | isted Abo  |
| 15. Special Handling Instructions and Additional In  USE APPROPRIATE PERSONAL  16.  GENERATOR'S CERTIFICATION: I hereby and are classified, packed, marked, and labe national government regulations.  If I am a large quantity generator, I certify that be be economically practicable and that I have  | protective Equipment  declare that the contents of this consignment alled, and are in all respects in proper condition at I have a program in place to reduce the volve selected the practicable method of treatments.   | are fully and ac<br>n for transport I<br>ume and toxicity<br>nt, storage, or                     | c. c. curately of wasted disposal of | described above I<br>y according to ap<br>a generated to the<br>currently available | d.  d.  by proper plicable a degree to me w | r shipping<br>internatio<br>I have de<br>rhich minin                       |
| 15. Special Handling Instructions and Additional In  USE APPROPRIATE PERSONAL  16.  GENERATOR'S CERTIFICATION: I hereby and are classified, packed, marked, and labe national government regulations.  If I am a large quantity generator, I certify that to be economically practicable and that I hav present and future threat to human health an generation and select the best waste manage.   | protective equipment  declare that the contents of this consignment alled, and are in all respects in proper condition at I have a program in place to reduce the volve selected the practicable method of treatment did the environment; OR, if I am a small quantitiement method that is available to me and that  | are fully and ac<br>n for transport I<br>ume and toxicit;<br>nt, storage, or<br>y generator, I h | c. c. curately of wasted disposal of | described above I<br>y according to ap<br>a generated to the<br>currently available | d.  d.  by proper plicable a degree to me w | r shipping<br>internatio<br>I have de<br>hich minin<br>imize my v          |
| 15. Special Handling Instructions and Additional In  USE APPROPRIATE PERSONAL  16.  GENERATOR'S CERTIFICATION: I hereby and are classified, packed, marked, and labe national government regulations.  If I am a large quantity generator, I certify that to be economically practicable and that I hav present and future threat to human health an  | protective equipment  declare that the contents of this consignment eled, and are in all respects in proper condition at I have a program in place to reduce the volve selected the practicable method of treatment dependent of the environment; OR, if I am a small quantite ement method that is available to me and that   | are fully and ac<br>n for transport I<br>ume and toxicit;<br>nt, storage, or<br>y generator, I h | c. c. curately of wasted disposal of | described above I<br>y according to ap<br>a generated to the<br>currently available | d.  d.  by proper plicable a degree to me w | r shipping<br>internation<br>I have de<br>thich minim                      |
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STATE OF ARKANSAS Department of Pollu Control and Ecology P. O. Box 9583 Little Rock, Arkansas 72219 Telephone 501-562-7444

| 9. Designated Facility Name and Site Address 10. US EPA ID Number  E. State Transporter's ID  PC H  F. Transporter's Phone  G. State Facility's ID  American Rd.   |  |
|--|--|
| 4. Generator's Phone (\$18 ) \$13-3626  5. Transporter 1 Company Name  Disporsal Control Services  7. Transporter 2 Company Name  9. Designated Facility Name and Site Address  ENSCO Inc.  American Rd.  CAD OOR325334  CAD OOR325334  C. State Transporter's ID 9 PC H  E. State Transporter's ID PC H  F. Transporter's Phone  G. State Facility's ID  CAD OOR325334  CAD OOR325334  C. State Transporter's ID 9 PC H  C. State Transporter's Phone B  E. State Transporter's ID PC H  CAD OOR325334  CAD OOR325334  C. State Transporter's ID 9 PC H  C. State Transporter's Phone B  C. State Transporter's ID 9 PC H  C. State Transporter   |  |
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| Disporsal control Services   CATOSONS   YILBY   D. Transporter's Phone   800 877 33   PC H  7. Transporter 2 Company Name   8. US EPAID Number   E. State Transporter's ID   PC H  9. Designated Facility Name and Site Address   10. US EPAID Number   G. State Facility's ID   CAMPAGE   C. State Facility's ID   CAMPAGE   C. State Facility's ID   C. State Facility's          |  |
| 7. Transporter 2 Company Name  8. US EPA ID Number  E. State Transporter's ID  PC H  F. Transporter's Phone  9. Designated Facility Name and Site Address  10. US EPA ID Number  G. State Facility's ID  American Rd.  |  |
| 9. Designated Facility Name and Site Address 10. US EPA ID Number  G. State Facility's ID  American Rd.  | 773                                    |
| ENSCO Inc. American Rd.  |  |
| III American Rd.   | -                                      |
| For Dava Jo Ak 7/73 m  | <del></del>                            |
| 14K 00 6 9 7 9 8 1 9 2 301 - 223 - 4100  | <del></del>                            |
| Total Unit 1. No. Type Quantity Wit/Add  |  |
| E waste tlammable Liquid, nos flammable Liquid   |  |
| Las Packed material (Door) UN 1993 4PM 1200 9 Doo  | 202                                    |
| To haste flammable ciquid nos. flammable Liquid  Las Packed material (Door) UN 1993  | <u>~~</u>                              |
|  | h                                      |
| "Hazardous waste Liquid 1.0.5- Flammable Liquid  | 30                                     |
| NIK  | •                                      |
|  |  |
|  |  |
| J. Additional Descriptions for Materials Listed Above  O- Lab lacked divms 1,2,3,4 See attached 1,5t 4455 (p) K. Handling Codes for Wastes Listed Above  |  |
| 6- Lab lacked from # 5 sec affected list 145 GO) EMERGENCY RESPONSE INFORMATION:   |  |
| if no alternate TSDF, return to generator  |  |
| 15. Special Handling Instructions and Additional Information  PROFILE # 08 795 116-15# 116-11#   |  |
| 11   |  |
| Use appropriate Personal Protective equipment LOAD#  |  |
| 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this  | sified                                 |
| sas state regulations.   |  |
| If I am a large quantity generator. I certify that I have a program in place to advent   | Arkan-                                 |
| If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically ticable and that I have selected the practicable method of treatment above and invariant toxicity of waste generated to the degree I have determined to be economically   | Arkan-<br>v prac-                      |
| If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically ticable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human heal available to me and that I can afford.  Printed/Typed Name  Signature  | Arkan-<br>y prac-<br>th and<br>that is |
| If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically ticable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human heal available to me and that I can afford.  Printed/Typed Name  Danilo Gullerrel  Month Day  Signature  Month Day  | Arkan- y prac- th and that is          |
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| If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically ticable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human heal available to me and that I can afford.  Printed/Typed Name  DANIO GUTIERRE  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Month Day  Month Day  Signature  Month Day  North Day  Month Day  Signature  | Arkan- y prac- th and that is          |
| If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically ticable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human heal available to me and that I can afford.  Printed/Typed Name  DAN IO GUTIERRE  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Month Day  Month Day  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Month Day  Signature  Month Day  North Day  Signature  Month Day  Signature   | y practh and that is  Year  Year       |
| If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically ticable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human heal available to me and that I can afford.  Printed/Typed Name    Danilo Gullerred   Signature   Month Day   | Arkan- y prac- th and that is  Year    |
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| If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically ticable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human heal available to me and that I can afford.  Printed/Typed Name  Printed/Typed Name  Printed/Typed Name  Signature  Signature  Month Day  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Month Day  19. Discrepancy Indication Space  Pransporter EPA 10 # WYALIA — CAT 080034/184  Added Waste and to Added to Lune 11A, 11B, 4, 11C, Sec. 1, T.   | y practh and that is  Year  Year       |
| If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically to testing and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human heal available to me and that I can afford.  Printed/Typed Name  DAN LO GVIETEL  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Month Day  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Month Day  19. Discrepancy Indication Space  Transporter EPA 10 # invalid — CAT 08 00 3 4/18 4  Added waste awaste awaste awaste believe to like IIA   IIB + IIC   Sect. T.  DOCUMENTATION OF Like IIA   IIB + IIC   Sect. T.   | y practh and that is  Year  Year       |
| If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically ticable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human heal available to me and that I can afford.  Printed/Typed Name  Printed/Typed Name  Printed/Typed Name  Signature  Signature  Month Day  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Month Day  Printed/Typed Name  Signature  Month Day  19. Discrepancy Indication Space  Pransporter EPA 10 # Myralid — CAT 080034/184  Added waste added to the degree I have determined to be economically to the which minimizes the present and future threat to human heal available to me which minimizes the present and future threat to human heal available to me which minimizes the present and future threat to human heal available to me which minimizes the present and future threat to human heal available to me which minimizes the present and future threat to human heal available to me which minimizes the present and future threat to human heal available to me which minimizes the present and future threat to human heal available to me which minimizes the present and future threat to human heal available to me which minimizes the present and future threat to human heal available to me which minimizes the present and future threat to human heal available to me which minimizes the present and future threat to human heal available to me which minimizes the present and future threat to human heal available to me which minimizes the present and future threat to human heal available to me which minimizes the present and future threat to human heal available to me which minimizes the present and future threat to human heal available to me and that I available to | y practh and that is  Year  Year       |

STATE OF ARKANSAS Department of Pollu Control and Ecology P. Ö. Box 9583 Little Rock, Arkansas 72219 Telephone 501-562-7444

|              | ease print or type. (Form designed for use on elite (12-pitch) typewrite  |                                  |  | Form App                     | roved. OMB                       | No. 205                       | 50-0039. Expires 9-3               |
|--------------|---|----------------------------------|--|------------------------------|----------------------------------|-------------------------------|------------------------------------|
|              | UNIFORM HAZARDOUS 1. Generator's US EPA<br>WASTE MANIFEST SIA PO 10 10 10 10 10 10 10 10 10 10 10 10 10   | 3,2,5,3,36/1 19                  | Manifest<br>cument No.                 | 2. Page 1<br>of 12           | Informa<br>required              | ition in ti<br>d by Fede      | he shaded areas is no<br>eral law. |
|              | 3. Generator's Name and Mailing Address Allied-Signal Acrospace Co- Electro 11600 Sherman Way, No- Hollywood  | dynamics 0<br>1) LA 91605        | iν.                                    | A. State Ma AR-  6. State Ge | , • . •                          | Number 22                     | er                                 |
|              | 4 Generator's Phone (\$18) 503-3626  5. Transporter 1 Company Name  |                                  |  | 1                            | 0083                             | 253                           | 34                                 |
|              | Disposed + 10   | US EPA ID Num                    |  | C. Sibe Tre                  | napodora ID                      | 7 P                           | С H                                |
|              | 7. Transporter 2 Company Name 8.  | 471013101015 1/<br>US EPA ID NUM | 1/18/7<br>ber                          | D. Transpor<br>E. State Trai | ters Phone                       | 800                           | 817 3773                           |
|              |   | 1 1 1 1 1 1                      | 1 1 1                                  | F. Transport                 |                                  | PO                            | C H                                |
|              | 9. Designated Facility Name and Site Address 10.  | US EPA ID Numi                   | per                                    | G. State Fac                 |                                  | 755,                          | <u>a</u>                           |
|              | American Rd.  |                                  |  | H. Facility's                |                                  |                               |                                    |
|              | El Dorado, AK 7/730 IAV   | 210101619171418                  | 1192                                   | 1 .                          |                                  | 4//2                          | <b>0</b>                           |
|              | 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID  |                                  | 12. Conta                              | iners<br>Type                | 13.<br>Total<br>Quantity         | 14.<br>Unit<br>Wt/Vol         | Waste No.                          |
| E            | "waste flammable Liquid, nos flamma   | ble Liquid                       |  |                              |                                  | 1                             | U1961U052                          |
| N<br>E<br>R  | Las Packed material (DODI) UN.  | 1993                             | 14                                     | DM.                          | 121010                           | 9                             | Dondoz                             |
| A<br>T       | Las Packed material (Pool) UN19   | mable Liquid                     |  |                              |                                  |                               |                                    |
| O<br>R       |   | İ                                | , ,1                                   | DF                           | 1 1 15                           | 1                             | Dogah                              |
|              | · Hazardous waste Liquid N.O.S. Flam  | mable Liquid                     |  |                              |                                  | 13                            | 0030                               |
|              | Lab Packed material UN 9189   | ,                                | 1 1                                    | DIF                          | 1 1 15                           | 5                             | NIK 30                             |
|              | d.  |                                  |  |                              |                                  |                               |                                    |
|              |   |                                  | 1 1                                    |                              | 1 1 1                            |                               |                                    |
|              | J. Additional Descriptions for Materials Listed Above O- Lab Packed dryms 1,2,3,4 See attache   | 11:st 445                        | 5 (0)                                  | K. Hendling (                | Codes for Wast                   | es Listed                     | Above                              |
|              | 5- Lab lacked drom # 5 see attached C- Lab lacked from # 6 see affached   | list, by a                       | (30)                                   | EMERGEN                      | CY RESPONS                       | SE INFO                       |                                    |
|              | if no alternate TSDF, return to generator   |                                  |  | * 3                          |                                  | 4. \$.                        | ,                                  |
|              | 15. Special Handling Instructions and Additional Information 116-15   | * 11C-11                         |  |                              |                                  |                               |                                    |
|              | use appropriate Personal Prot   | fective Rqu                      | מקיו                                   | nen+                         | LO<br>(c                         | $\frac{\partial}{\partial x}$ | #<br>%5                            |
|              | 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this packed, marked, and labeled, and are in all respects in proper condition for transpass state regulations.   | consistent and the state of      |  |                              | y proper shipp<br>ational govern | ing name                      | e and are classified,              |
|              | If I am a large quantity generator, I certify that I have a program in place to reduce ticable and that I have selected the practicable method of treatment, storage, or of the environment; OR, if I am a small quantity generator, I have made a good fa available to me and that I can afford. | the volume and toxicity of wast  | e generated                            | to the degree                | have determin                    | ned to be                     | e economically prac-               |
| ╽            | available to me and that I can afford.  Printed/Typed Name  |                                  | generation                             | and select th                | e Dest waste r                   | nanagem                       | nent method that is                |
| V            | Danilo Gulierrez  | Signature 1                      | 2                                      | +                            |                                  |                               | onth Day Year                      |
| RF           | 17. Transporter 1 Acknowledgement of Receipt of Materials   |                                  | No.                                    | X                            |                                  |                               | 0181016190                         |
| A<br>N<br>S  | Printed/Typed Name  OM  ASTANDA   | Signature                        | 0                                      | 文                            | $\rightarrow$                    | Mo                            | onth Day Year                      |
| ρþ           | 18. Transporter 2 Acknowledgement of Receipt of Materials   | the contract                     | es                                     |                              | ×                                |                               | 0181016131                         |
| ֓֟֟֝֟֟֝֟֟֝֟֟ | Printed/Typed Name  | Signature                        | ······································ |                              |                                  | Mc                            | onth Day Year                      |
| 4            | 19. Discrepancy Indication Space  |                                  |  |                              |                                  |                               |                                    |
| -            | Jansporter EPA 1.   | D # invalid                      | -Ct                                    | AT 080                       | 00341                            | 84                            |                                    |
|              | Added waste lode  | o to like 1                      | /A/II                                  | B+11                         | C, Se                            | ct.                           | $\mathcal{I}$ .                    |
| <b>;</b>     | 20. Facility Owner or Operator: Certification of receipt of hazardous materials covere  | /1                               | <u> </u>                               |                              |                                  |                               |                                    |
| Ť            | Printed/Typed Name  | Signature Signature              | oted in Item                           | 19.<br>1                     |                                  |                               | inth Day Year                      |
| Ţ            | Legh bunter   | Leigh I                          | Juno                                   | ter                          |                                  |                               | 1 S I T 90                         |
| ·Α           | Form 8700/22 (Rev. 9-88) Previous edition is obsolete.  |                                  |  |                              |                                  |                               |                                    |

NOTICE: THE ORIGINAL AND NOT LESS THAN TWO (2) COPIES MUST MOVE WITH THE HAZARDOUS WASTE SHIPMENT, ONCE DELIVEDED THE TREAT

| _ 1  | ONIT ONIT TIAZANDOOS IN A R  |  | fanifest<br>unpnt2io.1                                       |                  |                                      |             | he shaded areas<br>by Federal law.            |
|--|--|--|--|------------------|--------------------------------------|-------------|---|
|  | Generator's Name and Mailing Address   | <del> </del>   | 111  |                  | te Manifest Docum                    |             |   |
|  | Allied-SignallAerospace CoE  | lectrodynamics Divisi  | on   | 7.2              | 884                                  | 570         | 141   |
|  | 11600 Sherman Way, North Holl<br>Generator's Phone (818 765-1010   | AMOGG, CA ATORE  |  | 121 (4.75)       | te Generator's ID                    | 6 0         | 3,2,0,6,                                      |
| 1  | Transporter 1 Company Name   | 6. US EPA ID Number  | -  |                  | te Transporter's I                   |             | 143   |
|  | Disposal Control Service   | CAT030034  | 184  | _                | nsporter's Phone                     | (800        | 824-334                                       |
| 7.   | Transporter 2 Company Name   | 8. US EPA ID Number  |  |                  | te Transporter's I                   | D           |   |
| 9.   | Designated Facility Name and Site Address  | 10. US EPA ID Number   |  |                  | te Facility's ID                     |             | 7   |
|  | DEMENNO KERDOON  |  |  |                  |                                      | 3 0 0       | 1 3 3 5 2                                     |
|  | 2100 N. Alameda St.<br>Compton, CA 90222   | C A T 0 8 0 0 1 3  | 3,5,2  |                  | ility's Phone<br>213) 537-           | 7100        |   |
| -  | US DOT Description (Including Proper Shipping Nam  |  | 12. Cont   | ainers           | 13. Total<br>Quantity                | 14.<br>Unit | I.<br>Waste No                                |
| I  |  |  | No.  | Туре             |                                      | Wt/Vol      | State   |
|  | Waste Petroleum Oil, n.o.s.,<br>UN 1270  | Compustible Fidula   | 0 0 1  | TT               |                                      | 9           | EPA/Othec                                     |
| Ĕ L  | UN 1270  |  |  | 1                | 0/14/51                              | 2 "         | N/A   |
| E b.   |  |  |  |                  | •                                    |             | State   |
| Ŷ  |  |  |  |                  |                                      |             | EPA/Other                                     |
| O C  |  |  | <del> </del>   |                  |                                      |             | State   |
| _  |  |  |  |                  |                                      |             | EPA/Other                                     |
| _  |  |  |  |                  |                                      | -           | State   |
| d.   |  |  |  |                  |                                      |             | 學生, 1981年後日                                   |
|  |  |  | 111  |                  | 1111                                 |             | EPA/Other                                     |
|  | Additional Descriptions for Materials Listed Above   | ži la  |  | K. Ha<br>a.      | ndling Codes for                     | Wastes L    | isted Above                                   |
|  | LUBRICATING OIL 20%  |  |  |                  | 01                                   | 2           |   |
|  | HYDRAULIC OIL 60%<br>WATER 20%   | 7 .  |  | c.               |                                      | d.          |   |
| 1  | 5. Special Handling Instructions and Additional Informat   | tion   |  |                  |                                      |             |   |
|  | USE APPROPRIATE PERSONAL PROT  | TECTIVE EQUIPMENT  |  |                  |                                      |             | t ned forsklovensky republik se 42 gregory    |
|  |  |  |  |                  |                                      |             |   |
| -  | <ol> <li>GENERATOR'S CERTIFICATION: I hereby declare</li> </ol>  | that the contents of this consignment are  | e fully and a  | curately         | described above                      | by prope    | er shioping name                              |
|  |  | that the contents of this consignment are  | or transport   | by highw         | ay according to a                    | applicable  | international and                             |
| 10   | and are classified, packed, marked, and labeled, an  | nd are in all respects in proper condition to  | •  |                  |                                      | he degree   | a I have determine                            |
| 10   | and are classified, packed, marked, and labeled, an national government regulations.  If I am a large quantity generator, I certify that I have  | e a program in place to reduce the volume  | e and toxicit  | y of was         | te generated to the                  | la ta ma i  |   |
| 11   | and are classified, packed, marked, and labeled, an national government regulations.  If I am a large quantity generator, I certify that I have to be economically practicable and that I have selected  e a program in place to reduce the volume<br>cted the practicable method of treatment,<br>environment; OR, if I am a small quantity g  | e and toxicit<br>storage, or<br>enerator, I h                | disposal         | currently available                  | le to me v  | which minimizes th<br>nimize my waste         |
|  | and are classified, packed, marked, and labeled, an national government regulations.  If I am a large quantity generator, I certify that I have to be economically practicable and that I have select present and future threat to human health and the egeneration and select the best waste management.  | e a program in place to reduce the volume<br>cted the practicable method of treatment,<br>environment; OR, if I am a small quantity g<br>method that is available to me and that I d   | e and toxicit<br>storage, or<br>enerator, I h                | disposal         | currently available                  | le to me v  | which minimizes the nimize my waste Month Day |
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(Rev. 9-88) Previous editions are obsolete.

| ı  | or type. WFoth designed for use on ell UNIFORM HAZARDOUS  | 1. Generator - CO E.   | Do   | Manifest<br>cument No.  | ∠. Pa<br>o                  |   |                 | shaded areas<br>y Federal law.   |              |
|----|---|--|--|---|-----------------------------|---|-----------------|--|--------------|
| 1  | WASTE MANIFEST  | CAD0018  | 3 2 5 3 3 4 91   | 0101210   | _                           | Manifest Docume   |                 |  | 7            |
| 3. | Generator's Name and Mailing Address  |  | namadan Di   | veeton  |                             | 8845  | 70              | 40   | 4            |
|    | Allied-Signal Aerosp.<br>11600 Sherman Way. N   | <b>RCE USO, -</b> Ele<br>ombb Wollowso   | CTFOGYRAMICS DI  | 4121011   | B. State                    | Generator's ID  | 100             | A The same   | 1            |
|    | Generator's Phone (818 503-3  |  | u, un 91000  |   |                             | A H Q 3 6   | 0.3             | 2057   | -1           |
|    | Transporter 1 Company Name  | 6.   | US EPA ID Number   | E   |                             | e Transporter's ID<br>sporter's Phone                           | 11              | 1331   | -            |
| •  | 011 and Solvent Proc  |  | AIDIDIOI813101   |   |                             | e Transporter's ID  | (818)           | 334-5117   | 7            |
| 7. | Transporter 2 Company Name  | 8.   | OS EPA ID Number   |   |                             | sporter's Phone   | -               | 72 734 9 12  | 1            |
| L  | Designated Facility Name and Site Add   | trace 10   | . US EPA ID Numbe  |   | G. Stat                     | e Facility's ID   |                 | the state of the s |              |
| 9  | Oll and Solvent Proc  |  |  |   |                             | CIAIDIOIO   | 83              | 0 2 9 0 3  | 4            |
|    | 1704 W. First Street  |  |  |   | H. Fac                      | lity's Phone  | F 40            | A \$124 \$145 -  |              |
|    | Azusa. CA 91702   | <u>(</u>   | AD00830  | 2 9 0 3<br>12 Cont  |                             | 18) 334-5   | 117             | 150  | ヿ            |
| _  | US DOT Description (Including Proper  | r Shipping Name, Hazard  | Class, and ID Number)  | No.   | Туре                        | Quantity  | Unit<br>Wt/Vol  | Waste No.  |              |
| L  |   |  |  |   |                             |   |                 | State 221  | -            |
| a  | Waste Kerosene, Comb  | uetible Lieui  | d. UN1223  | _ 2   |                             | 0 NLSC  |                 | EPA/Other  | ヿ            |
|    | Marca Valorellet com  | decivie diqui  |  | Ø Ø >   | DM                          | 010/120   | <del>-</del> 6- | State N/A  | $\dashv$     |
| ŀ  | Tudable   | washing am   |  |   |                             |   | 183             | 211<br>EPA/Other   | -            |
| ١  | Waste 1,1,1, Trichlo<br>UN2831 (F001)   | HOSCHAIRS OFM  | · Œ 9  | MAL   | n lu                        | COSOIC  | 1 6             | FO01   |              |
| L  |   |  |  | Olore   | U IN                        | CALL  |                 | State  |              |
| ľ  | RQ, Waste Flammable   | Liquid, n.o.s  |  |   |                             | 10101   | 1               | PA/Other   | $\neg$       |
|    | Flammable Liquid, UNI   | 1993, (paint )   | and thinner)   | 0010  | DM                          | CIOZIOS   | ) G             | F003,F005  | -            |
| ŀ  | J   |  | .4.4 1101206   |   |                             |   |                 | 213  | _            |
|    | RQ, Waste Heptane, I  | riaminole riv  | iid' autroe  | MAR   | D M                         | DO hai  | 6               | DO01   |              |
| L  | J. Additional Descriptions for Materials I  | isted Above  |  | - Unite   | K. H.                       | ndling Codes for  | Wastes L        | isted Above  |              |
| ١  | Profile aLAXF2860   | - Kerosene   |  |   | -                           | 01  | 6"              | 01   |              |
|    |   | 1 - 1,1,1 Tri  |  | 5.0   | C.                          |   | d.              |  |              |
| ۱  | cLAXF2794   |  | In Inners  | ٠.,   |                             | 01  |                 | 0/   |              |
| l  | dLAXF2855<br>15. Special Handling Instructions and Ad   |  |  |   |                             |   |                 |  |              |
|    |   |  |  |   |                             |   |                 |  |              |
| ١  |   |  | _  |   |                             |   |                 |  |              |
|    |   |  | *****  |   |                             |   |                 |  |              |
|    | USE APPROPRIATE PER   | SONAL PROTECT  | IVE EQUIPMENT  |   |                             |   |                 |  |              |
|    | USE APPROPRIATE PER   |  |  | it are fully and  | accurate                    | ly described abov   | e by prop       | per shipping name  |              |
|    | USE APPROPRIATE PER  16.  GENERATOR'S CERTIFICATION: and are classified, packed, market   | I hereby declare that the  | o contents of this consignment<br>all respects in proper conditi   |   |                             |   |                 |  |              |
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EPA 8700—22 (Rev. 9-88) Previous editions are obsolete.

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|                   |          | IFORM HAZARDOUS                                      | T                            | s US EPA ID No.                        | Ma          | anilest      |             |            |             |                | 0404. Expires 7-31-86<br>the shaded |
|                   |          | WASTE MANIFEST                                       |                              |  | Docur       | ment No.     | 22.         | Laga       |             |                | uired by Federal                    |
|                   |          | (Continuation Sheet)                                 | CAD008                       | 325334                                 | 90          | 020          |             | <b>ノ</b> 1 | law.        |                | , ,                                 |
|                   |          | Generator's Name                                     |                              | ************************************** | <u> </u>    |              | 1 6         |            | :/ D-       |                | Number                              |
| •                 |          | Allied-Signal Aerospace                              | Company -                    | Electrodynamic                         | cs Di       | ٧.           | L 211       | ate ivian  |             | cument<br>8457 |                                     |
|                   | 45       | 11600 Sherman Way, North                             | i Hollywood                  | d, CA 91605                            | •           |              | 14.6        |            |             |                | 040                                 |
| Ì                 |          | (818) 503-3626                                       |                              | •                                      |             |              |             |            | neratorie   |                | 1115515                             |
|                   | 24       | . Transporter Company Name                           |                              | 25 116 504 10 41                       | ··          |              | <del></del> |            | 03206       |                | 110010                              |
|                   | 1<br>1   | Oil and Solvent Process                              | CO                           | 25. US EPA ID Number CAD008302903      |             |              |             |            | nsporter    |                |                                     |
|                   | 120      |  | <u> </u>                     |  |             |              |             |            |             |                | <u>8)234-5117</u>                   |
| $\mathcal{I}_{L}$ | 20       | . Transporter Company Name                           |                              | 27. US EPA ID Number                   | r           |              | ,           |            | sporter     |                |                                     |
|                   | -        |  |                              | <u> </u>                               | <del></del> |              | 7           | T          | er's Pho    |                |                                     |
|                   | 28       | . US DOT Description (Including Proper S             | hipping Name, F              | dazard Class, and ID Nu                | mberi       | 29. Conta    | iners       |            | 30.<br>otal | 31<br>Unit     | R,<br>Waste No.                     |
|                   | <b> </b> |  |                              |  |             | No           | Iypa        |            | antity      | Wi/Yol         |                                     |
|                   | 8.       |  |                              |  |             |              | i           |            |             |                |                                     |
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| A                 |          |  | <del></del>                  | · · · · · · · · · · · · · · · · · · ·  | <u></u>     | <u> </u>     |             | <u> </u>   | •           | <b> </b>       |                                     |
| 1                 | €.       | RQ, Waste Flammable Liqu                             | id, n.o.s,                   | UN1993                                 |             | 0            |             | 10         | ()          |                | 214                                 |
| A                 |          | (red oil and Heptane)                                |                              |  |             | 4            | DM          | 10         | O           | [ G [          | D001                                |
|                   |          |  |                              | ·                                      |             |              |             |            |             | ļ              |                                     |
| 11                | 1.       | Waster Hydraulic Eduidy<br>Hazandous Waster - (skypy | N <i>OW -1/</i> BERD         | LA KARA                                |             |              | 14          |            |             |                | 221,                                |
| 41                |          | Hazardolis Walter-1 (skyly)                          | of and wet                   | er) 1000                               | l           | Į.           | 664         |            |             | 100            | (NXX                                |
|                   |          |  |                              | <u> </u>                               |             |              |             | <u> </u>   |             |                |                                     |
|                   | g.       |  |                              |  |             |              |             |            |             |                |                                     |
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| H                 |          |  |                              |  |             | <u> i</u>    | i           |            |             | ئـــــا        |                                     |
| 8                 | S. A     | Additional Descriptions for Materials Liste          | ed Above                     | ,                                      |             |              | T. Har      | ndling C   | odes for    | Wastes         | s Listed Above                      |
| 7                 |          | PROFILE eLAXF28556 - Re                              | ed 0 <mark>il &amp;</mark> H | eptane                                 | •           | İ            |             |            |             |                |                                     |
| D                 |          | £ = EAXF 28554 - \$                                  | kydrol and                   | water                                  |             | -            |             |            | $\triangle$ |                | :                                   |
|                   |          | •  |                              |  |             | 1            |             |            | 0           |                | •                                   |
|                   | L        |  |                              |  |             |              |             |            |             |                |                                     |
|                   | 32.      | Special Handling Instructions and Additi             | onal Information             |  |             |              |             |            |             |                | 1                                   |
|                   |          | •  |                              |  |             |              |             |            |             |                |                                     |
|                   |          |  |                              |  |             |              |             |            |             |                |                                     |
|                   |          | USE APPROPRIATE PERSONAL                             | PROTECTIV                    | E EQUIPMENT                            |             |              |             |            |             |                | 1                                   |
| 1                 |          |  |                              |  |             |              |             |            |             |                | i                                   |
| TR                | 33.      | Transporter Acknowledgement of                       | Receipt of Mater             | ials                                   |             |              |             |            |             |                | Date                                |
| AN                |          | Printed/Typed Name                                   | ~ .                          | Signature 🗘 🔿                          | 2           | 1            | _           |            |             | į              | Month Day Year                      |
| S                 | L        |  | Ecc                          |  |             | بالملا       | <u> </u>    |            |             |                | 18 0 kg                             |
| OR                | 34.      | Transporter Acknowledgement of                       | Receipt of Mater             |  | <b>—</b>    |              |             |            |             |                | Date                                |
| Ī                 |          | Printed/Typed Name                                   | <u> </u>                     | Signatura Co                           | 2           | <del>_</del> | <b>A</b>    | -          |             | 1              | Month Day Year                      |
| Ā                 |          | WX TOGET   | > <b>/</b>                   |  |             | wer.         |             |            |             | ř              | 3.800 SC                            |
| 1                 | 35.      | Discrepancy Indication Space                         |                              |  |             | •            |             |            |             |                | j                                   |
| 19                |          |  |                              |  |             |              |             |            |             |                | j                                   |
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| Ľ                 |          |  |                              |  |             |              |             |            |             |                |                                     |
| EPA               | For      | n 8700-22A (3-84)                                    |                              |  |             |              |             |            |             |                |                                     |

DHS 8022 A (1/88) EPA 8700—22

Typed Name

(Rev. 9-88) Previous editions are obsolete.

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Do Not Write Below This Line

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest exp

Month

Day

Year

pt as noted in Item 19

|                   | UNIFORM HAZARDOUS L General WASTE MANIFEST C A D   | or's US EPA ID No.<br>0   0   8   3   2   5   3   3   4   9   | Manifest<br>ocument No.  | 1 2.                                      | <b>-</b>   |                               | he shaded are<br>by Federal lay  |
|-------------------|--|---|--|---|--|-------------------------------|--|
| 1                 | 3. Generator's Name and Mailing Address  | 0000120013 43   | 9 1 1 9  |   | ate Manifest Docum   |                               |  |
| ı                 | Allied-Signal Aerospace  | Company, Electrod   | ivnamic  |   | 884  | 570                           | 38   |
|                   | 11600 Sherman Way, N. Hol<br>4. Generator's Phone (818) 765-1010   | Tywood, CA 91605  |  |   | ate Generator's ID   |                               | n kantiki si   |
|                   | 4. Generator's Phone (818) 765-1010  |   |  |   | H A HO3  |                               | 3 20 6   |
|                   | 5. Transporter 1 Company Name  | 6. US EPA ID Numbe  |  | man, are an                               | ate Transporter's II   | 1/                            | 3146   |
| ı                 | Disposal Control  7. Transporter 2 Company Name  | 1 C A T 0 3 0 0 3 1 8. US EPA ID Numbe  |  | 10 m                                      | ansporter's Phone  | (800                          | )824-3   |
| 1                 | Transporter 2 Company Name   | 5. GO EFA ID NUMBE  | 1 1 1  | Torrison                                  | insporter's Phone  |                               |  |
| 1                 | 9. Designated Facility Name and Site Address   | 10. US EPA ID Numbe   | <del>,                                    </del>   |   | ate Facility's ID  | 100                           |  |
|                   | Demenno Kerdoon  |   |  |   | CATOR  |                               | 3 0 0 0  |
|                   | 2100 M. Alameda  |   |  | H. Fa                                     | cility's Phone   |                               |  |
| I                 | Compton, CA 90222  | CA TO 800 1   |  | 1   |  | -710                          | 0  |
| ı                 | 11. US DOT Description (Including Proper Shipping Name   | e, Hazard Class, and ID Number)   | 12. Cont   | ainers Type                               | 13. Total<br>Quantity  | 14.<br>Unit<br>Wt/Vol         | l.<br>Waste  |
|                   | "Hazardous Waste liquid N  | .O.S., ORM-E.   |  |   |  |                               | State  |
| G<br>E            | NA9189 (waste coolant)   |   |  |   |  |                               | EPA/Other  |
| N                 | b.   | DOT-E7476   | 0 0 1  | TIT                                       | 012141010  | 6                             | N/A<br>State   |
| E<br>R<br>A       | -  |   |  |   |  |                               |  |
| Ť<br>O            |  |   |  | ۱,  |  |                               | EPA/Other  |
| Ř                 | c.   |   |  |   | 1 1 1 1  |                               | State  |
| _                 |  |   |  |   |  |                               | EPA/Other  |
| ı                 |  |   |  |   |  |                               | LI A Olifor  |
|                   | d.   | 5   |  |   |  |                               | State  |
| ı                 |  |   |  |   |  |                               | EPA/Other  |
| l                 | <u> </u>   |   |  | ÷   | سر   |                               |  |
| 1                 | 15. Special Handling Instructions and Additional Information   |   |  |   |  |                               |  |
|                   | Use appropriate personal  18.  GENERATOR'S CERTIFICATION: I hereby declare   | protective equip  | re fully and ac  | curately                                  | r described above I  | by proper                     | r shipping nam   |
|                   | Use appropriate personal  18.  GENERATOR'S CERTIFICATION: I hereby declare and are classified, packed, marked, and labeled, and national government regulations.  If I am a large quantity generator, I certify that I have to be economically practicable and that I have select present and future threat to human health and the ergeneration and select the best waste management management.  | that the contents of this consignment at are in all respects in proper condition  a program in place to reduce the volument ted the practicable method of treatment vironment; OR, if I am a small quantity   | re fully and ac<br>for transport t<br>ne and toxicity<br>t, storage, or of<br>generator, I h                   | y highw<br>of was<br>disposal             | ay according to ap<br>te generated to the<br>currently available | plicable<br>degree<br>to me w | international a  I have determined the minimizes                                 |
|                   | Use appropriate personal  18.  GENERATOR'S CERTIFICATION: I hereby declare and are classified, packed, marked, and labeled, and national government regulations.  If I am a large quantity generator, I certify that I have to be economically practicable and that I have select present and future threat to human health and the ergeneration and select the best waste management in Printed/Typed Name  | that the contents of this consignment at are in all respects in proper condition  a program in place to reduce the volument ted the practicable method of treatment vironment; OR, if I am a small quantity   | re fully and ac<br>for transport t<br>ne and toxicity<br>t, storage, or of<br>generator, I h                   | y highw<br>of was<br>disposal             | ay according to ap<br>te generated to the<br>currently available | plicable<br>degree<br>to me w | I have determ<br>hich minimizes<br>imize my wast                                 |
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EPA 8700---22 (Rev. 9-88) Previous editions are obsolete.

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-3 See Instructions on Back of Page 6 Department of Health Services Please print or type. (Form designed for use on el and Front of 2-pitch typewriter). Toxic Substances Control Division Sacramento, California UNIFORM HAZARDOUS 1. Generator's US EPA ID No. Manifest 2. Page 1 C AD 0 0 8 3 2 5 3 3 4 9 0 0 1 information in the shaded areas WASTE MANIFEST Allied-Signal Aerospace Co., Electrodynamics Division of 1 is not required by Federal law. A. State Manifest Document N 11600 Sherman Way, North Hollywood, CA 91605 4. Generator's Phone (818) 765-1010 B. State Generator's ID 1036 1FORNIA CALL 1-800-862-7560 H A H 10 13 16 10 13 12 10 16 1 5. Transporter 1 Company Name C. State Transporter's DOO US EPA ID Number Disposal Control Service C | A | T | O | 8 | O | O | 3 | 4 | 1 | 8 | 4 D. Transporter's Phone 7. Transporter 2 Company Name US EPA ID Number E. State Transporter's ID F. Transporter's Phone 9. Designated Facility Name and Site Address US EPA ID Number Chemical Waste Management G. State Facility's ID 35251 Old Skyline Road 1CIAITIO 0 0 0 6 4 6 1 11 H. Facility's Phone Kettleman City, CA 93239 1C1A1T101010161416111117 209) 386-971 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers RQ, Hazardous Waste solid N.O.S., ORM-E, NA9189 (DOO7, DOO8, DOO6) (Chrome Cakes) Profile LAXG24718 Chrome Cakes D,F 905,1818 RESPONSE CENTER 1-800-424-8802; EPA/Othe EPA/Otha EPA/Othe J. Additional Descriptions for Materials Listed Above Profile LAXG24718 Chrome Cakes THE NATIONAL 15. Special Handling Instructions and Additional Information Wear appropriate personal protective equipment. CALL GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and SPIL If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, If I am a small quantity generator, I have made a good faith effort to minimize my waste. F generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name Danilo Gutierrez 17. Transporter 1 Acknowledgement of Receipt of Materials Ž Printed/Typed Name JULIA 6 Transporter 2 Acknowledgement of Receipt of Materials CASE Printed/Typed Name Signature 19. Discrepancy Indication Space ACI 20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Nam Signature DHS 8022 A (1/88) EPA 8700-22 Do Not Write Below This Line

(Rev. 9-88) Previous editions are obsolete.

White: TSDF SENDS THIS COPY TO DOHS WITHIN 30 DAYS To: P.O. Box 3000, Sacramento, CA 95812

0/0006276

EPA 8700-22

(Rev. 9-88) Previous editions are obsolete.

|   | UNIFORM HAZARDOUS 1. Generator's US EPA ID No.   | Manifes<br>Document  |   |  |  | the shaded a   |
|---|--|--|---|--|--|--|
|   | WASTE MANIFEST 3. Generator's Name and Mailing Address   | اواواوله   | 1 5                                       | of is no   |  | d by Federal   |
|   | ALLIER CICHAL APPACRACE PLEATRANGULANTAR RELIE   |  | 7. 0                                      | 884  | 157  | BRA  |
|   | ALLIED SIGNAL AEROSPACE-ELECTRODYNAMICS DIVI   | 210M   | B. S                                      | late Generator's   | D  |  |
|   | 818 765-1010   |  | 40.0                                      | HAHOS  | 6 0  | 1206   |
|   | 55 E/A ID  |  |   | tate Transporter's<br>ransporter's Phon                  |  | 3/21.  |
|   | 7. Transporter 2 Company Name  8. US EPA ID  | Number   |   | late Transporter's                                       | 197  | 8) 334-  |
|   | <u> </u>   |  | F. T                                      | ansporter's Phon   | 0  |  |
|   | 9. Designated Facility Name and Site Address 10. US EPA ID   | Number   | G. S                                      | tate Facility's ID                                       |  |  |
|   | OIL AND SOLVENT PROCESS CO.<br>1704 W. FIRST ST.   |  | H. F                                      | CA DO  | 08   | 9 0 2 9  |
|   | AZUSA, CA 91702 ICIAI DI OI OI 8   | 3 0 2 0 0  | /   |  | 3257-0-0   |  |
|   | 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)   |  | Containers                                | 13. Total<br>Quantity                                    | 14.<br>Unit  | Was  |
| 1                                       | <b>a</b> .   | No   | . Туре                                    | Quantity   | Wt/Vo  | i  |
| •                                       | RQ.WASTE HEPTANE, FLAMMABLE LIQUID, UN1206   |  |   |  |  | State  |
| . ]                                     | -(0001)  | م اه   | d a nia                                   | 0 0 1 0  |  | EPA/Ollfe  |
|   | DO MACTE EL AMMANTE L'IGHTE  | 0.6  |   | 1 0 0 1 0  | 0 6  | Stat DOO   |
|   | RQ,WASTE FLAMMABLE LIQUID, n.o.s., UN1993 (DOO1) (red of and heptane)  | <b>A.</b> 6  |   |  |  | EPA/Other  |
|   | С.   |  | 7 2 0 1                                   | 0010   | 0 6  | st.0001  |
|   | RQ, WASTE FLAMMABLE L'IQUID, n.o.s., FLAMMABLE LI  | מזוא   |   |  |  | 17 (196)   |
| -                                       | UN1993(F003,F005) (Paint and thinners)   | 0 0  | <b>b</b> n <b>k</b>                       | 0 6 6 6 6  |  | EPA CONTRACTOR   |
|   | WASTE KEROSENE, COMBUSTIBLE LIQUID, UN1223   |  |   | 00100  | 9  | #Q03,  |
| L                                       |  |  | E E                                       |  |  | EPA/O  |
| F                                       | J. Additional Descriptions for Materials Listed Above  | 00   | 1 DKM                                     | Miling odde id   | Wastes L   | isted At   |
| .                                       | PROFILE a) LAXF28557 - Heptane   |  | a.  |  | b.   | 11   |
| -                                       | b) LAXF28556 - Red off and Heptane   |  | C.  | -O'  | <b>d</b> .   |  |
|   | c) LAXF27942 - Paint and thinners  |  | 1   |  |  | 1)1  |
| L                                       |  |  |   |  | ,  |  |
| Ļ                                       | 15. Special Handling Instructions and Additional Information   |  |   | 01   |  |  |
|   | 15. Special Handling Instructions and Additional Information   |  |   | 01   | 79 22 12 19 20 20 20 20 20 20 20 20 20 20 20 20 20 | $O_1$  |
| 1                                       |  | 77,11  | <u> </u>                                  | 01   |  |  |
|   | USE APPROPRIATE PERSOANL PROTECTIVE EQUIPMENT  |  |   | 01   |  | U1_  |
|   | USE APPROPRIATE PERSOANL PROTECTIVE EQUIPMENT  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this assistance.  | nent are fully and   | 1 accurately                              | described above  | by prope   | f shipping na  |
|   | USE APPROPRIATE PERSOANL PROTECTIVE EQUIPMENT  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment and are classified, packed, marked, and labeled, and are in all respects in proper contational government regulations.   | dition for transpo   | ort by nighw                              | ay according to a  | applicable   | international  |
|   | USE APPROPRIATE PERSOANL PROTECTIVE EQUIPMENT  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment and are classified, packed, marked, and labeled, and are in all respects in proper containing government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the be economically practicable and that I have selected the practicable method of trees present and future threat to human health and the environment. On the   | volume and tox   | icity of was<br>or disposal               | te generated to the                                      | applicable<br>ne degree                            | international  |
| 1                                       | USE APPROPRIATE PERSOANL PROTECTIVE EQUIPMENT  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment and are classified, packed, marked, and labeled, and are in all respects in proper containing government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the to be economically practicable and that I have selected the practicable method of tree present and future threat to human health and the environment; OR, if I am a small que generation and select the best waste management method that is available to me and   | volume and tox   | icity of was<br>or disposal               | te generated to the                                      | applicable<br>ne degree                            | international  |
| 1                                       | USE APPROPRIATE PERSOANL PROTECTIVE EQUIPMENT  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment and are classified, packed, marked, and labeled, and are in all respects in proper connational government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the to be economically practicable and that I have selected the practicable method of tree present and future threat to human health and the environment; OR, if I am a small que generation and select the best waste management method that is available to me and rinted/Typed Name  | volume and tox   | icity of was<br>or disposal               | te generated to the                                      | applicable<br>ne degree                            | international I have determined minimize my was  |
| 1<br>1                                  | USE APPROPRIATE PERSOANL PROTECTIVE EQUIPMENT  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment and are classified, packed, marked, and labeled, and are in all respects in proper connational government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the to be economically practicable and that I have selected the practicable method of tree present and future threat to human health and the environment; OR, if I am a small que generation and select the best waste management method that is available to me and rinted/Typed Name  N. McLaughlin  N. McLaughlin  | volume and tox   | icity of was<br>or disposal               | te generated to the                                      | applicable<br>ne degree                            | international I have determined minimize my was  |
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| 1 1 1 5 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 | USE APPROPRIATE PERSOANL PROTECTIVE EQUIPMENT  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignm and are classified, packed, marked, and labeled, and are in all respects in proper connational government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the to be economically practicable and that I have selected the practicable method of tree present and future threat to human health and the environment; OR, if I am a small que generation and select the best waste management method that is available to me and rinted/Typed Name  N. McLaughlin  7. Transporter 1 Acknowledgement of Receipt of Materials  | volume and tox   | icity of was<br>or disposal               | te generated to the                                      | applicable<br>ne degree                            | I have determined in the minimize in the minim |
| 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | USE APPROPRIATE PERSOANL PROTECTIVE EQUIPMENT  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment and are classified, packed, marked, and labeled, and are in all respects in proper connational government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the to be economically practicable and that I have selected the practicable method of tree present and future threat to human health and the environment; OR, if I am a small que generation and select the best waste management method that is available to me and initiated/Typed Name  N. McLaughlin  7. Transporter 1 Acknowledgement of Receipt of Materials  Signature  8. Transporter 2 Acknowledgement of Receipt of Materials   | volume and tox   | icity of was<br>or disposal               | te generated to the                                      | applicable<br>ne degree                            | I have determined in the minimize in the minim |
| 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | USE APPROPRIATE PERSOANL PROTECTIVE EQUIPMENT  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment and are classified, packed, marked, and labeled, and are in all respects in proper connational government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the to be economically practicable and that I have selected the practicable method of tree present and future threat to human health and the environment; OR, if I am a small que generation and select the best waste management method that is available to me and dirinted/Typed Name  N. McLaughlin  7. Transporter 1 Acknowledgement of Receipt of Materials  Signature  Signature   | volume and tox   | icity of was<br>or disposal               | te generated to the                                      | applicable<br>ne degree                            | have determined in the minimize in the minimiz |
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| 11 Pr                                   | USE APPROPRIATE PERSOANL PROTECTIVE EQUIPMENT  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignm and are classified, packed, marked, and labeled, and are in all respects in proper connational government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the to be economically practicable and that I have selected the practicable method of tree present and future threat to human health and the environment; OR, if I am a small que generation and select the best waste management method that is available to me and rinted/Typed Name  N. McLaughlin  7. Transporter 1 Acknowledgement of Receipt of Materials  Signature  Signature  Signature  Signature  Discrepancy Indication Space  | volume and tox<br>atment, storage,<br>antity generator,<br>that I can afford | icity of was<br>or disposal<br>I have mad | te generated to the currently available a good faith eff | applicable<br>ne degree                            | have determined have determined minimize imize my was Month Da Month Da  |
| 11 Pri                                  | USE APPROPRIATE PERSOANL PROTECTIVE EQUIPMENT  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment and are classified, packed, marked, and labeled, and are in all respects in proper connational government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the tobe economically practicable and that I have selected the practicable method of tree present and future threat to human health and the environment; OR, if I am a small que generation and select the best waste management method that is available to me and trinted/Typed Name  N. MCLaugh In  7. Transporter 1 Acknowledgement of Receipt of Materials  Frinted/Typed Name  Signature  Signature  Signature  D. Facility Owner or Operator Certification of receipt of hazardous materials covered by the late of the process o | volume and tox<br>atment, storage,<br>antity generator,<br>that I can afford | icity of was<br>or disposal<br>I have mad | te generated to the currently available a good faith eff | applicable<br>ne degree                            | have determined have determined minimize imize my was Month Da Month Da  |
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|             | pe. (Form designed for use on a                                | elite (12-pitch) typewriter | .)                             |                        | Form Approve                      | d. OMB No.               | 2000-04               | 104. Expires 7-31-86          |
|-------------|--|-----------------------------|--------------------------------|------------------------|-----------------------------------|--------------------------|-----------------------|-------------------------------|
|             | IFORM HAZARDOUS WASTE MANIFEST                                 | 21. Generator's US I        | _                              | Manifest<br>cument No. | 22. Page                          |                          |                       | the shaded<br>ired by Federal |
|             | (Continuation Sheet)   | C.A D O 0.8.3               | 3.2.5 3.3.4 9.                 | 0 0 1 5                | 2                                 | law.                     |                       |                               |
| 7           | 23. Generator's Name ALLIED SIGNAL AEROSPACE 11600 SHERMAN WAY | -ELECTRODYNAMI              | CS DIVISION                    |                        | L. State Mr<br>8845<br>M. State G | 7034                     | lan e sid             |                               |
|             | N. HOLLYWOOD, CA 91605   | (818) 765-10                | )10                            |                        |                                   | 3603206                  |                       |                               |
| -           | 24. Transporter Company Name                                   | 25. U                       | JS EPA ID Number               |                        | N. State Ir                       | ansportar's              | IPCAD                 | 008302903                     |
| -           | OIL AND SOLVENT PROCESS  |                             | A U U U B 3 U JS EPA ID Number | <u> 290</u>            | P. State In                       |                          |                       | 8)234-5117                    |
|             | 26. Transporter Company Name                                   | 1 .                         | 73 El A 10 Humber              |                        | Q. Iranspo                        |                          |                       |                               |
|             | 28. US DOT Description (Including Proper S                     | Shipping Name, Hazar        | d Class, and ID Numbe          | 29. Conta              | 1                                 | 30.<br>Total<br>uantity  | 31.<br>Unit<br>WI/Yal | R,<br>Waste No.               |
|             | <b>J.</b>  |                             |                                |                        | ·                                 |                          |                       |                               |
|             | <b>b</b> .   |                             |                                |                        |                                   |                          |                       |                               |
|             | c.   |                             |                                |                        |                                   |                          |                       |                               |
|             | d.   |                             |                                |                        |                                   |                          |                       |                               |
| -           | • WASTE 1,1,1-TRICHLOROET                                      | HANE, ORM-A, U              | IN 2831                        | 005                    | DM 0                              | 200<br>0 <del>1 50</del> | G                     | 211<br>F001                   |
|             | NASTE HYDRAULIC FLUID, G<br>(SKYDROL AND WATER) ∕              | ALIFORNIA REGU<br>Von- RCLA | HATED ONLY                     | . 008                  | DM 0                              | 0 4 00                   | G                     | 221<br>NA                     |
|             | g.   |                             |                                |                        |                                   |                          | ·                     |                               |
|             | h.   |                             |                                |                        |                                   |                          |                       |                               |
| }           | i.   |                             | ē                              |                        | -                                 |                          |                       |                               |
| -           | S. Additional Descriptions for Materials Lis                   | ited Above                  | ·                              |                        | T. Handlin                        | g Codes for              | Wastes                | s Listed Above                |
|             | e) profile LAXG93094<br>f) LAXF28554                           |                             | ·                              |                        |                                   |                          |                       |                               |
|             | 32. Special Handling Instructions and Add                      | itional Information         |                                |                        |                                   |                          |                       |                               |
| 1           | USE APPROPRIATE PERSONAI                                       | PROTECTIVE E                | QUIPMENT                       |                        |                                   |                          |                       | Deta                          |
| -           | 33. Transporter Acknowledgement                                | of Receipt of Materials     |                                |                        |                                   |                          |                       | Date<br>Month Day Year        |
| R<br>A<br>V | Printed/Typed Name   |                             | Signature                      |                        |                                   |                          |                       |                               |
| P           | 34. Transporter Acknowledgement                                | of Receipt of Materials     |                                |                        |                                   |                          |                       | Date<br>Month Day Year        |
| A<br>T<br>E | Printed/Typed Name   |                             | Signature                      |                        |                                   |                          |                       | Mornin Day Year               |
|             | 35. Discrepancy Indication Space                               |                             |                                |                        |                                   |                          |                       |                               |

| f                | Doc Doc   | Manifest<br>cument No.                         | 2. 1                            | EN 1   |                                       | he shaded are<br>by Federal lav |
|------------------|---|--|---------------------------------|--|---------------------------------------|---------------------------------|
|                  | 3. Generator's Name and Mailing Address  ALLIED SIGNAL AEROSPACE-ELECTRODYNAMICS DIVISION  11600 SHERMAN WAY: N. HOLLYWOOD, CA 91605  4. Generator's Phone (R18) 765-1010   |  |                                 | 884<br>ate Generator's II  | 570                                   | 33                              |
|                  | 5. Transporter 1 Company Name 6. US EPA ID Number  DISPOSAL CONTROL SERVICE IC A IT 0 3 10 0 3 4  7. Transporter 2 Company Name 8. US EPA ID Number   | 11 8 4   | D. Tra                          | ate Transporter's<br>ansporter's Phone<br>ate Transporter's<br>ansporter's Phone | (800)                                 | 7 <i>370</i><br>824-33          |
|                  | 9. Designated Facility Name and Site Address 10. US EPA ID Number  DEMENNO KERDOON 2100 N. Alameda St.  Formaton CA 90222 I C A T 0 8 0 9 1   |  | G. St                           | ate Facility's ID  | 81010                                 | 113131                          |
|                  | 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)  | 12. Conf                                       | 1                               | 13. Total<br>Quantity  | -7100<br>14.<br>Unit                  | Wast                            |
| G<br>E<br>N      | WASTE PETROLEUM OIL, n.o.s., COMBUSTIBLE LIQUID UN 1270   | 0 0 1  | Type                            | 21/16/01   | ) &                                   | State 221<br>EPA/Other          |
| E<br>A<br>T<br>O | b.  |  |                                 |  |                                       | State<br>EPA/Other              |
| R                | c   |  |                                 | 11:11  |                                       | State<br>EPA/Other              |
|                  | d.  |  |                                 |  |                                       | State<br>EPA/Other              |
|                  | J. Additional Descriptions for Materials Listed Above WATER SOLUBLE OIL 2% LUBRICATING OIL 20% HYDRAULIC OIL 60% WATER 20%  |  | 8.<br>C.                        | andling Codes for  | b.                                    | Sted Above                      |
|                  | USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition to national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I content in the content is available to me and that I content is available to me and the content is available to me and the content is available to me and the content is available to me and | e and toxicity<br>storage, or<br>enerator, I h | by highv<br>y of was<br>disposa | vay according to a<br>ste generated to to<br>I currently availab                 | applicable<br>he degree<br>le to me w | I have determined minimize      |
| <b>-</b>         | Printed/Typed Name  Mary McLaughlin  17. Transporter 1 Acknowledgement of Receipt of Materials  | Jane !   | K. <u> </u>                     |  |                                       | Month Da                        |
| R A N S P O R    | Printed/Typed Name PHIKLIP FARKY  18. Transporter 2 Acknowledgement of Receipt of Materials   | Fa   | le                              | 4  |                                       | Month Da                        |
| T<br>E<br>R<br>F | Printed/Typed Name Signature  19. Discrepancy Indication Space  | 10 -   | A.                              | ,0   |                                       | Month Da                        |
| ĉΙ               |   |  | K                               | ·  |                                       |                                 |

| WASTE MANIFEST  |   | , Manifest<br>Document No.  |  | 1  |                                    | ne shaded areas<br>by Federal law.   |
|---|---|---|--|--|------------------------------------|--|
| 3. Generator's Name and Mailing Address   | 083253349   | 00113   |  | e Maniest Docum  |                                    |  |
| ALLIED SIGNAL AEROSPACE-ELECT   | TRODYNAMICS DIVISIO   | )N  | y  | 884  | 0/0                                | 32   |
| 4. Generalog SHERMAN, WAY, N. HOLLYHO   | 00D, CA 91605   |   |  | e Generator's ID   | 6 0                                | اعاواواوا  |
| 5. Transporter 1 Company Name   | 6. US EPA ID Numb   |   | 14-55-19                                       | e Transporter's II.<br>asporter's Phone  | 0                                  | 3063   |
| 7. Transporter 2 Company Name   | 8. US EPA ID Numb   |   | TOP THE  | e Transporter's ID   | (800                               | <del>) 824-3</del> 3   |
|   |   |   | 1000   | sporter's Phone  | Pa                                 | TREAT TO SECURE  |
| Designated Facility Name and Site Address   | 10. US EPA ID Numb  | er  | G. Stat  | e Facility's ID  |                                    |  |
| DEMENNO KERDOON   |   |   | H. Fac   | CATO8  | 0.0                                | 1 3 3 5  |
| 2100 N. ALAMEDA ST.   | r   | 2 2 5 9   | /91  | 9) 527-71  | 20                                 | No.  |
| 11. US DOT Description (Including Proper Shipping Name, I   | Hazard Class, and ID Number)  | 12. Conta   | Type   | 13. Total<br>Quantity  | 14.<br>Unit<br>Wt/Vol              | L<br>Waste N   |
| a. /  |   |   |  |  |                                    | State  |
| HAZARDOUS WASTE LIQUID, n.o.s., (waste coolant)   | , UKM-E, NA9189   | 0 10 11   | TIT  | 22500  | 6                                  | EPA/Other 21   |
| b   |   |   |  | •  | -                                  | State  |
| 7   | ≝,  |   |  | 1111   |                                    | EPA/Other  |
| c.  |   |   |  |  |                                    | State  |
|   |   | در أنعسيد.  | 1  |  |                                    | EPA/Other  |
| !<br>  d.   |   |   |  |  | -                                  | State  |
|   |   |   |  |  |                                    | EPA/Other  |
|   |   |   |  | dling Codes for W  |                                    |  |
| LUBRICATING OILS  |   |   | C.   | 7  | 4.                                 | r  |
| WATER   |   |   |  | 1.5  |                                    | Ý  |
|   |   |   |  |  |                                    |  |
| 15. Special Handling Instructions and Additional Information  | ECTIVE EQUIPMENT  |   |  |  |                                    |  |
| 15. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTE  16.  GENERATOR'S CERTIFICATION: I hereby declare the and are classified, packed, marked, and labeled, and a national government regulations.  If I am a large quantity generator, I certify that I have a to be economically practicable and that I have selected present and future threat to human health and the envir   | at the contents of this consignment are in all respects in proper condition program in place to reduce the vold the practicable method of treatmetronment; OR, if I am a small quantity   | on for transport b<br>ume and toxicity<br>ent, storage, or c<br>by generator, I ha        | y highwa<br>of wast<br>disposal                | ay according to ap<br>e generated to the<br>currently available                        | oplicable<br>e degree<br>e to me v | I have determin<br>thich minimizes t   |
| 15. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTE  18.  GENERATOR'S CERTIFICATION: I hereby declare the and are classified, packed, marked, and labeled, and a national government regulations.  If I am a large quantity generator I certify that I have a to be economically practicable and that I have selected present and future threat to human health and the envi generation and select the best waste management met   | at the contents of this consignment are in all respects in proper condition program in place to reduce the vold the practicable method of treatmetronment; OR, if I am a small quantite thod that is available to me and tha                                    | on for transport b<br>ume and toxicity<br>ent, storage, or c<br>by generator, I ha        | y highwa<br>of wast<br>disposal                | ay according to ap<br>e generated to the<br>currently available                        | oplicable<br>e degree<br>e to me v | international and<br>I have determin<br>which minimizes to<br>imize my waste   |
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DHS 8022 A (1/88) EPA 8700-22

(Rev. 9-88) Previous editions are obsolete.

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To: P.O. Box 3000, Sacramento, CA 95812

| ALL TER CYCRE APPROPRIE  |   | 0 0   | A. St  | ate Manifest Docu<br>884                         | ment Nu                    | mber O   |
|--|---|---|--|--|----------------------------|--|
| ALLIED SIGNAL AEROSPACE-ELE<br>11600 SHERMAN WAY, N. HOLLYW  | CTRODYNAMICS DIVISION<br>OOD. CA 91605  | N.  | B. St  | ate Generator's ID                               | 311                        | U & O  |
| 4. Generator's Phone (818) 765-1010  5. Transporter 1 Company Name   | 6. US EPA ID Numb   | per   | C St   | HA HO  | 3 6                        | 9 2  |
| PISPOSAL CONTROL SERVICE   | CATOSOC   | 4 1 0   | D. Tr  | ansporter's Phone                                | Lan                        | 2.73°<br>0)824   |
| 7. Transporter 2 Company Name  | 8. US EFA TO Mumit  | Ser   | PARTY SUPSIDE  | ate Transporter's I                              | D (00)                     | o joz4   |
| 9. Designated Facility Name and Site Address   | 10. US EPA ID Numb  | per   | SCHOOL S   | ate Facility's ID                                |                            | Labor  |
| DEMENNO KERDOON<br>2100 N. ALAMBA ST.  |   |   | H. Fa  | cility's Shohe 0                                 | 8 0 (                      | 9 1 3  |
| COMPTON, CA 90222  | I CI AI TI OI BI OI OI 1  | 3 3 5 2   |  | 213) 537-  | 7100                       |  |
| 11. US DOT Description (Including Proper Shipping Na   | me, Hazard Class, and ID Number)  | 12. Con<br>No.  | tainers<br>Type  | 13. Total<br>Quantity                            | 14.<br>Unit                |  |
| 2.   |   | No.   | туре   |  | Wt/Vo                      | State  |
| HAZARDOUS WASTE LIQUID, n.o.s   (waste coolant)  | ., ORM-E, NA9189  | 0.01  |  |  |                            | EPA/C  |
| b.   |   | 99,   | 9 9 8  | 014121016  | 6                          | State  |
| 1  |   |   |  |  |                            | EPA/C  |
| c.   |   | -   | - -  | <del>                                     </del> | ļ                          | State  |
|  | <b>Y</b>  |   |  |  |                            | EPA/O  |
| d.   |   |   |  |  | -                          | State  |
|  |   |   |  |  |                            | EPA/O  |
| J. Additional Descriptions for Materials Listed Above  |   |   | K. Ha  | ndling Codes for V                               | Venten I                   | isted Ah   |
| LUBRICATING OILS.  | A . W . W   | ₹.  | C  | 5.5  | d. *                       |  |
| WATER  15. Special Handling Instructions and Additional Information  |   | 12  | C.   |  | d.                         |  |
| USE APPROPRIATE PERSOANAL PROPERTY OF THE PE | e that the contents of this consignment nd are in all respects in proper condition (see a program in place to reduce the volucted the practicable method of treatme environment; OR, if I am a small quantity method that is available to me and that   | are fully and ac<br>n for transport b<br>ume and toxicity<br>nt, storage, or  | curately<br>yy highw                                   | ay according to ap                               | by proper plicable edegree | internation  |
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DHS 8022 A (1/88) EPA 8700-22

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20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

(Rev. 9-88) Previous editions are obsolete.

Printed Typed Name

Day

Year

| J.         | NEORM HAZARDOUS                      | elite (12-pitch) typewriter.)  21. Generator's US EPA ID |                | 1anilest     | Form Appro                            |                                       |               | 404. Expires 7-31-8  |
|------------|--------------------------------------|--|----------------|--------------|---------------------------------------|---------------------------------------|---------------|--|
|            | WASTE MANIFEST                       |  |                | ıment No.    |                                       | areas                                 | nol req       | uired by Federal   |
|            | (Continuation Sheet) Detator's Name  | C A D O O 8 3 2 5  | 3 3 4 9 0      | 8 0 0        | •                                     | law.                                  |               |  |
|            | LIED SIGNAL AEROSPACE                | - FLECTDODYNAMICS  | DIVICTON       |              |                                       | lanifest Do                           | cument        | Number   |
| 11         | 600 SHERMAN WAY, N. H                | OLLYWOOD CA 9160   | DIAI210N       |              | M. State (                            | 57027                                 |               | The second secon |
| (8         | 318) 765-1010                        |  | J              |              | 1                                     | H_U_3_(                               |               |  |
| 24. Trai   | nsporter Company Name                | 25. US EPA   |                |              | N. State 1                            | ransportor                            | s IU          | 17.17.1  |
| 01         | L AND SOLVENT PROCESS                | L CA D O   | 08302          | 903          | O. Iransp                             | ortor's Pho                           | ne (8         | 18) 334-511  |
| 26. Trai   | nsporter Company Name                | 27. US EPA   | ID Number      |              | P. State I                            | onsporter                             | 's ID         |  |
|            |                                      |  |                | 1            | Q. Transp                             |                                       | ne            |  |
| 28. US (   | DOT Description (Including Proper S  | Shipping Name, Hazard Class,                             | and ID Number) | 29. Conta    | iners                                 | 30.<br>Ioini                          | 31<br>Unit    | R,<br>Waale No.  |
|            | * 1                                  |  |                | No           | _Ixon                                 | Quantity                              | - VICYO       |  |
| D.         |                                      |  |                |              |                                       |                                       |               |  |
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| · WA:      | STE ORM-A,n.o.s., ORM-               | A,NA1693 (F001)  |                |              |                                       |                                       |               | 741  |
|            | aste freon)                          | , ,  |                | 0.0.1        | DMOC                                  | 0 5 0                                 | G             | . F001   |
|            |                                      |  |                |              |                                       |                                       | 1             |  |
| · WA:      | STE,1,1,1-TRICHLOROETH               | IANE,)ORM-A, UN283                                       | l (F001)       | gQ.          |                                       | 100                                   |               | 211  |
|            |                                      |  |                | 0 05         | D M O C                               | 0.5(1)                                | G             | F001   |
|            |                                      |  |                | 001          |                                       | 52                                    |               |  |
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|            |                                      |  |                | L            | T Unnellin                            | n Codes t-                            | . Wasis       | a Listed Ahove   |
| S. Addit   | ional Descriptions for Materials Lis | ed Above   |                |              | i, mandiin                            | A conaz 10                            | · **8318      | s Listed Above   |
| e.         | Profile LAXG93212 - F                | reon 37000887  | •              |              |                                       |                                       |               |  |
| f.         | LAXG93094 - 1                        | ,1,1,-Trichloroeth                                       | nane 870001    | 148          |                                       |                                       |               |  |
|            | •                                    |  |                |              |                                       |                                       |               |  |
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|            | cial Handling Instructions and Addi  |  | AFAIT          |              |                                       |                                       |               |  |
| US         | E APPROPRIATE PERSONAL               | . PROTECTIVE EQUIPM                                      | TENI           |              |                                       |                                       |               |  |
|            |                                      |  |                |              |                                       |                                       |               |  |
|            |                                      |  |                |              |                                       |                                       |               |  |
| 33 Trai    | nsporter Acknowledgement o           | Receipt of Materials                                     |                | <del>/</del> |                                       |                                       |               | Date   |
|            | und/Tuned Name (1)                   | Signatu  | ·• 2 //        | 9/1,,        | PAL                                   | Λe                                    |               | Month Doy Yes  |
|            | (41) (506)                           |  | - W            |              | كالالا                                | <u> </u>                              |               | Date   |
| 34. Irai   | nsporter Acknowledgement o           | Receipt of Materials                                     |                |              |                                       |                                       |               | Menth Day Yea  |
|            | nted/Typed Name                      | Signatu  | 18             |              |                                       |                                       |               | 1 <u>1 L</u>   |
|            |                                      |  |                |              |                                       |                                       |               |  |
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| 35. Disc   | crepancy Indication Space            |  |                |              |                                       |                                       |               |  |

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| •                            | UNIFORM HAZARDOUS 1. Generator's US  | Doc  | vlanifest<br>cument No.  |                                  | 1   |                                    | ne shaded areas  |
| l                            | WASTE MANIFEST Q A D Q O   | 183253349  | <u>a a a 7</u>   | <u> </u>                         | of 1 is not<br>te Manifest Docum  |                                    | by Federal law.  |
| l                            | ALLIED SIGNAL AEROSPACE - ELECTR   | OTSIVIC SIMANAS  | N  | A. 318                           | 884   |                                    | 125  |
| ı                            | 11600 SHERMAN WAY, N. HOLLYWOOD,   |  | 11   | B. Sta                           | te Generator's ID   |                                    |  |
| l                            | 4. Generator's Phone (818) 765-1010  |  |  |                                  | AHOB  |                                    | 2087   |
| l                            | o. Wandportor Foundary Hame  | 6. US EPA ID Number  |  | 1                                | te Transporter's II   |                                    | 7319   |
| ı                            | DISPOSAL CONTROL SERVICE  7. Transporter 2 Company Name  | C A IT 10 13 10 10 13 14   | 11 18 14   |                                  | le Transporter's II   | (800)                              | 824-334  |
| l                            | 7. Hallsporter 2 Company Hame  |  | 1 1 1  |                                  | nsporter's Phone  |                                    |  |
|                              | 9. Designated Facility Name and Site Address   | 10. US EPA ID Number   |  | G. Sta                           | te Facility's ID  |                                    |  |
| l                            | OIL AND SOLVENT PROCESS CO   |  |  |                                  | <u> </u>  | 3  0                               | 12 19 10 13 1  |
| l                            | 1704 W. FIRST ST.  | C  |  |                                  | ility's Phone   | , <del>,</del>                     |  |
| l                            | AZUSA, CA 91702  | 1 G A D O O O O O O  | 4 9 U 3  |                                  | 8) 334-51<br>13. Total  | 14.                                | I i.   |
|                              | 11. US DOT Description (Including Proper Shipping Name, Hazai  | rd Class, and ID Number)   | No.  | Туре                             | Quantity  | Unit<br>Wt/Vol                     | Waste N  |
| •                            | a. WASTE ELAMMARIE LIQUID DO C   | EL AMMADIE I TOUTE   |  |                                  |   |                                    | State  |
| G<br>E                       | WASTE FLAMMABLE LIQUID, n.o.s., UN1993 (Hexane and water) (D001)   |  | 0 0 1  |                                  | _   | G                                  | 343<br>EPA/Other   |
| N<br>E                       | b.   |  | 1,4,4,   | ואוט                             | מסטסכ   | ¥                                  | D001   |
| R<br>A                       | HAZARDOUS WASTE LIQUID, n.o.s., O  | RM-E,NA9189  |  |                                  |   |                                    | 272  |
| Ť<br>O                       | (polyurethane resin, dirt & water  | ·)   | 9019   | DIM                              | 20101410  | G                                  | EPA/Other<br>N/A   |
| Ř                            | C.   |  | 1012   |                                  |   |                                    | State  |
|                              |  |  |  |                                  |   |                                    | EPA/Other  |
|                              | d.   |  | $\perp$  |                                  |   |                                    | State  |
| l                            | <b>G</b> .   |  |  |                                  |   |                                    |  |
|                              |  |  | 1  | 1                                | 1 1 1 1   |                                    | EPA/Other  |
| l                            | with dirt  | and water  |  |                                  |   |                                    |  |
|                              | OVERPACKED IN 85 GALLON DRUMS  15. Special Handling Instructions and Additional Information  |  |  |                                  |   |                                    |  |
|                              |  | TIVE EQUIPMENT   |  |                                  |   |                                    |  |
|                              | 15. Special Handling Instructions and Additional Information   | TIVE EQUIPMENT   |  |                                  | · · · · · · · · · · · · · · · · · · ·   |                                    |  |
|                              | 15. Special Handling Instructions and Additional Information WEAR APPROPRIATE PERSONAL PROTEC  | e contents of this consignment ar  |  |                                  |   |                                    |  |
|                              | 15. Special Handling Instructions and Additional Information WEAR APPROPRIATE PERSONAL PROTEC  16.  GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked, and labeled, and are in   | e contents of this consignment ar<br>all respects in proper condition f<br>gram in place to reduce the volum<br>practicable method of treatment,<br>ent; OR, if I am a small quantity g  | or transport to<br>e and toxicity<br>storage, or<br>generator, I h     | oy highw<br>y of was<br>disposal | ay according to a<br>te generated to th<br>currently available                | pplicable<br>e degree<br>e to me w | I have determin<br>hich minimizes  |
|                              | 15. Special Handling Instructions and Additional Information WEAR APPROPRIATE PERSONAL PROTEC  16.  GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked, and labeled, and are in national government regulations.  If I am a large quantity generator, I certify that I have a prog to be economically practicable and that I have selected the present and future threat to human health and the environm generation and select the best waste management method.  Printed/Typed Name   | e contents of this consignment ar<br>all respects in proper condition f<br>gram in place to reduce the volum<br>practicable method of treatment,<br>ent; OR, if I am a small quantity g  | or transport to<br>e and toxicity<br>storage, or<br>generator, I h     | oy highw<br>y of was<br>disposal | ay according to a<br>te generated to th<br>currently available                | pplicable<br>e degree<br>e to me w | I have determin<br>hich minimizes  |
|                              | 15. Special Handling Instructions and Additional Information  WEAR APPROPRIATE PERSONAL PROTEC  16.  GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked, and labeled, and are in national government regulations.  If I am a large quantity generator, I certify that I have a prog to be economically practicable and that I have selected the present and future threat to human health and the environm generation and select the best waste management method.  Printed/Typed Name  M. McLaughlin   | e contents of this consignment are<br>all respects in proper condition f<br>gram in place to reduce the volum<br>practicable method of treatment,<br>ent; OR, if I am a small quantity of<br>that is available to me and that I                  | or transport to<br>e and toxicity<br>storage, or<br>generator, I h     | oy highw<br>y of was<br>disposal | ay according to a<br>te generated to th<br>currently available                | pplicable<br>e degree<br>e to me w | I have determing thich minimizes the similar my waste                                |
| RA                           | 15. Special Handling Instructions and Additional Information  WEAR APPROPRIATE PERSONAL PROTEC  16.  GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked, and labeled, and are in national government regulations.  If I am a large quantity generator, I certify that I have a prog to be economically practicable and that I have selected the present and future threat to human health and the environm generation and select the best waste management method in the properties of the process of the proc | e contents of this consignment are all respects in proper condition for am in place to reduce the volum practicable method of treatment, ent; OR, if I am a small quantity of that is available to me and that I                                 | or transport to<br>e and toxicity<br>storage, or<br>generator, I h     | oy highw<br>y of was<br>disposal | ay according to a<br>te generated to th<br>currently available                | pplicable<br>e degree<br>e to me w | I have determin which minimizes to imize my waste  Month Day  10 13 12 11            |
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| ANSPORTE                     | 15. Special Handling Instructions and Additional Information  WEAR APPROPRIATE PERSONAL PROTEC  16.  GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked, and labeled, and are in national government regulations.  If I am a large quantity generator, I certify that I have a prog to be economically practicable and that I have selected the present and future threat to human health and the environm generation and select the best waste management method.  Printed/Typed Name  M. McLaughlin  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  | e contents of this consignment are all respects in proper condition for am in place to reduce the volum practicable method of treatment, ent; OR, if I am a small quantity githat is available to me and that I Signature                        | or transport to<br>e and toxicity<br>storage, or<br>generator, I h     | oy highw<br>y of was<br>disposal | ay according to a<br>te generated to th<br>currently available                | pplicable<br>e degree<br>e to me w | I have determin thich minimizes thimize my waste  Month Day  10 13 12 11  Month Day  |
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| ANSPORTER FACILI             | 15. Special Handling Instructions and Additional Information  WEAR APPROPRIATE PERSONAL PROTEC  16.  GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked, and labeled, and are in national government regulations.  If I am a large quantity generator, I certify that I have a prog to be economically practicable and that I have selected the present and future threat to human health and the environm generation and select the best waste management method in the properties of the prop | e contents of this consignment are all respects in proper condition for am in place to reduce the volum practicable method of treatment, ent; OR, if I am a small quantity of that is available to me and that I Signature  Signature  Signature | or transport to a and toxicity, storage, or penerator, I h can afford. | y of wasi<br>disposal<br>ave mad | ay according to a le generated to the currently available e a good faith effe | pplicable<br>e degree<br>e to me w | I have determin which minimizes to imize my waste  Month Day  10 13 12 11  Month Day |
| ANSPORTER FA                 | 15. Special Handling Instructions and Additional Information  WEAR APPROPRIATE PERSONAL PROTEC  16.  GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked, and labeled, and are in national government regulations.  If I am a large quantity generator, I certify that I have a prog to be economically practicable and that I have selected the present and future threat to human health and the environm generation and select the best waste management method.  Printed/Typed Name  M. McLaughlin  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name   | e contents of this consignment are all respects in proper condition for am in place to reduce the volum practicable method of treatment, ent; OR, if I am a small quantity of that is available to me and that I Signature  Signature  Signature | or transport to a and toxicity, storage, or penerator, I h can afford. | y of wasi<br>disposal<br>ave mad | ay according to a le generated to the currently available e a good faith effe | pplicable<br>e degree<br>e to me w | I have determin which minimizes to imize my waste  Month Day  10 13 12 11  Month Day |

EPA 8700—22 (Rev. 9-88) Previous editions are obsolete.

white: JSDF SEMOS THIS CORY TO DOHS WITH HE

To: P.O. Box 3000, Capramento, CA (1981)

| UNIFORM HAZARDOUS  | nerator's US EPA ID No.  | Docu  | anifest<br>ıment No.                                     | 2.  | i   |             | the shaded are   |
|--|--|---|--|---|---|-------------|--|
| 3. Generator's Name and Mailing Address  | 0008325  | 3 3 4 9 0   | 000  | A. Sta  | of is no<br>ate Manifest Doc  |             | by Federal la  |
| ALLIED SIGNAL AEROSPACE- E   | ELECTRODYNAMICS  | DIVISION  |  | 2 on 500  | 884   | 570         | 124  |
| 11600 SHERMAN WAY, N. HOLL<br>4. Generator's Phone (818) 765-1010  | LYWOOD, CA 9160  | <b>5</b><br>HAR 27 Q  | n.   | 4 4   | ate Generator's K   |             |  |
| 5. Transporter 1 Company Name  | 6. US (  | EPA ID Number   | <b>J</b>   | C. St   | ate Transporter's   | ID D        | 27316  |
| 7. Transporter 2 Company Name  |  | 3 0 0 3 4<br>EPA ID Number  | 184  | JAC I   | ansporter's Phone<br>ate Transporter's  | 1000        | 1 824-35   |
|  |  |   |  | 12 17 11  | insporter's Phone   | 17850 TEMPE |  |
| Designated Facility Name and Site Address  |  | EPA ID Number   |  | G. Sta  | ate Facility's ID   | 120         |  |
| ROMIC CHEMICAL CORPORATION 2061 BAY ROAD   | N .  |   |  | H. Fa   | cility's Phone  | 0 9 4       | 5 2 6 5  |
| EAST PALO ALTO, CA 94303   | CADO   | 09452   | 6 5 7  | -   | 415) 324-   | 1638        |  |
| 11. US DOT Description (Including Proper Shipping N  | Name, Hazard Class, and ID I   | Number)   | No.  | ainers<br>Type  | Quantity  | Unit        | l.<br>Waste  |
| a.   |  |   | 140.   | 1,700   |   | Wt/Vo       | State  |
| RQ.HAZARDOUS WASTE LIQUID.n.   | O.S. ORM-E NAS   | 189 🔪   |  | _ =   |   |             | EPA/Othe   |
| (D001,D007) (Waste chem film   | n - algaine)   |   | 0 0 3  | <b>10</b> F   | 0015  | ) G         | 9001.00  |
|  |  |   |  |   |   |             | EPA/Other  |
| c.   |  |   |  |   |   |             | State  |
|  |  |   |  |   |   |             |  |
|  |  |   |  | 1   | 1111  |             | EPA/Other  |
| d.   |  |   |  |   |   |             | State  |
| I .  |  | •   |  |   |   | 1           | FOA JOHL   |
| J. Additional Descriptions for Materials Listed Above PROFILE BO4665 (WASTE CHE  | EM FILM ALODINE)   |   |  | <b>a.</b>   | ndling Codes for  | b.          | EPA/Other  |
|  | EM FILM ALODINE)   | <br>y   |  | K. Ha<br>a.   | ndling Codes for  |             | magni e  |
|  |  |   |  | <b>a.</b>   | ndling Codes for  | b.          | magni e  |
| PROFILE . 004665 (WASTE CHE  | mation   | -   | gr. v. v. v. v. v. v. v. v. v. v. v. v. v.               | <b>a.</b>   | ndling Codes for  | b.          | magni e  |
| PROFILE BO4668 (HASTE CHE  | mation   | -   |  | <b>a.</b>   | ndling Codes for  | b.          | magni e  |
| PROFILE. 004665 (WASTE CHE  15. Special Handling Instructions and Additional Inform  USE APPROPRIATE PERSONAL P  16.   | mation PROTECTIVE EQUIP  | PMENT   | A  | а.<br>С.  | .01   | d.          | isted Above  |
| PROFILE. BO4665 (WASTE CHE  15. Special Handling Instructions and Additional Inform  USE APPROPRIATE PERSONAL P  16.  GENERATOR'S CERTIFICATION: I hereby declar and are classified, packed, marked, and labeled,  | PROTECTIVE EQUIP   | PMENT Consignment are for   | ully and ac<br>transport b                               | C. C.   | described above   | d.          | isted Above  |
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| 1                     | UNIFORM HAZARDOUS   | i. Generator s   |  | lanifest<br>ument No.                                       | 2.  | Page 1 Inf  | ormation   | Sacramento, Califo   |
|-----------------------|---|--|--|---|---|---|------------|--|
| H                     | WASTE MANIFEST  | CADO   | 018131215131314 910  | 0 0 5   |   | of 1 is   | not requir | ed by Federal law.   |
|                       | Generator's Name and Mailing Address  ALLIED SIGNAL AEROSPA  11600 SHERMAN WAY. N.  |  |  |   |   | ate Manifest D<br>88<br>ate Generator's                           | 457        | 023  |
| 4                     | 11600 SHEPMAN WAY. N. Generator's Phone (818) 765-10  | 10   |  |   | 500                                       | HAH   |            | 0 3 2 0 6 7  |
| ε                     | Transporter 1 Company Name  | . <b></b>  | 6. US EPA ID Number  |   | -   | ate Transporte  | 170        | 0177   |
| 7                     | DISPOSAL CONTROL SERV  7. Transporter 2 Company Name  | ICE  | C   A   T   O   3   O   O   3   4  | 1 8 4   | -   | ate Transporter   |            | 800) 824-3345  |
|                       |   |  |  |   | F. Tre                                    | ansporter's Pho   | ne         |  |
| 8                     | Designated Facility Name and Site Address   |  | 10. US EPA ID Number   |   | G. St                                     | ate Facility's II   | 37.34      |  |
|                       | USPCI, GRASSY MOUNTA<br>3 MILES EAST, 7 MILES<br>BLIVE, UTAH  | IN FACILIT<br>S NORTH OF   | Y<br>' KNOLLS EXIT 180<br>    U  T  D  9  9  1  3  0  1  | 1748  | 100935                                    | cility's Phone  |            | 301748   |
| 1                     | US DOT Description (Including Proper S  | Shipping Name, Ha  | rard Class, and ID Number)   | 12. Cont  | _   | 13. Total<br>Quantit  | 14         |  |
|                       | CALIFORNIA R  |  |  | No.   | Type                                      |   | Wt/        |  |
|                       |   |  |  |   |   |   |            |  |
| b                     | HAZARDOUS WASTE SOLID<br>(EMPTY PLATING VAT &   | SCRUBBER   | (312150 mm)  | 0 0 1   | CIM                                       | ogzo  | Ø P        | State (3/2/  |
|                       |   |  |  |   |   |   |            | EPA/Other  |
| c                     |   |  |  |   | ├   |   | <u> </u>   | State  |
|                       |   |  |  |   |   |   |            | EPA/Other  |
| _                     |   |  | **   |   |   | 111   |            | EFA/Otter  |
| d                     |   |  |  |   |   |   |            | State  |
|                       |   | 50   | 2760   |   | ļ ,                                       |   |            | EPA/Other  |
| J.                    | Additional Descriptions for Materials Liste   |  | 1  |   | K. Ha                                     | ndling Codes f  |            | Listed Above   |
|                       |   | _  | ,  |   | ₽.  | - 03  | b.         |  |
|                       | GM89-3595   | 5  |  |   | C.  |   | d.         |  |
|                       |   | and the same   |  | -   | u e                                       | 5 - E   |            |  |
| 15                    | 5. Special Handling Instructions and Addition   |  |  |   |   |   | . 1        |  |
| 16                    | USE APPROPRIATE PERSO   | reby declare that to<br>the labeled, and are<br>fy that I have a pro-<br>I have selected that  | n all respects in proper condition for<br>ogram in place to reduce the volume<br>e practicable method of treatment, so<br>nent OR if I am a small quantity oper  | transport b<br>and toxicity<br>torage, or d                 | oy highw<br>of was:                       | te generated to   | the degr   | ee I have determined   |
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|   | MANIFEST   | CIAIDIOIOIS  |   | ocument No.   |                        | of is not  | required             | he shaded are<br>by Federal lav  |
|---|--|--|---|---|------------------------|--|----------------------|--|
|   | me and Mailing Address   |  |   |   | A. Sta                 | te Maffifest Docum   | F 7 0                | ber /  |
|   |  |  | NAMICS DIVISION   | N   | B. Sta                 | te Generator's ID  | 010                  | 664  |
|   | ERMAN, WAY, N.<br>818 765-1  | HULLYWUUD,   | CA 91605  |   |                        | اد ام ابداء  | e la la              | ا عاما جا •  |
| 5. Transporter 1 C  | ompany Name  | 6.   | US EPA ID Numbe   | er  | 10000                  | te Transporter's   | 00                   | 541  |
| 7. Transporter 2 C  | CONTROL SERV   | ICE !(   | ATRACOS   | 4 1 8 4   | Control of the Control | nsporter's Phone   | (800)                | 824-334  |
| 7. Hansporter 2 C   | ompany name  | o.<br>1  | US EPA ID NUMBE   | er<br>IIII  | Section with           | nsporter's Phone   |                      |  |
| 9. Designated Fac   | ility Name and Site Addres   | 3 <b>s</b> 10  | . US EPA ID Numbe   | er  | G. Sta                 | te Facility's ID   |                      |  |
| DEMENNO   |  |  |   |   | 4 5                    | CATOB  | 00                   | 1335   |
|   | ALAMEDA ST.  |  |   |   | WATER STATE            | cility's Phone   |                      |  |
| · · · · · · · · · · · · · · · · · · ·   | CA 90222   |  | A T 0 8 0 0 1   | 12. Cont  |                        | (213) 537-<br>13. Total  | 14.                  | 1.   |
| 11. US DOT Descr  | ription (Including Proper Sh   | nipping Name, Hazard   | Class, and ID Number)   | No.   | Туре                   | Quantity   | Unit<br>Wt/Vol       | Waste  |
| a.<br>Uicte bi  | TON PIN OT:  | COMB1  | MTTDIC I TAUTA  |   |                        |  |                      | State  |
| UN 1270   | ETROLEUM OIL, I  | n.0.5.,CORDE   |   | 0.0.1   | T. T                   | 012000   | . 6                  | EPA/Other  |
| b.  |  |  | DOT. EXYX   | 0 0 1   | *   *                  | 016000   | 1                    | State N/   |
|   |  |  |   |   |                        |  |                      | EPA/Other  |
|   |  | <del> </del>   |   |   |                        |  |                      | State  |
| c.  |  |  |   |   |                        |  |                      |  |
|   |  |  |   |   | 1                      | 1111   |                      | EPA/Other  |
| d.  |  | Marie Control of the  |   |   |                        |  |                      | State  |
|   |  |  |   |   |                        |  |                      | EPA/Other  |
| 1   |  |  |   |   |                        |  |                      | 1.00 miles   |
| WATER SO  | riptions for Materials Listed<br>OLUBLE OIL 2X<br>FING OIL 208   | d Above  | es 🕴 🔻  | <b>,</b>  | K. Ha<br>a.            | O/   | Vastes L<br>b.<br>d. | lated Above  |
| WATER SC<br>LUBRICAT<br>HYDRAULI<br>15. WAJERANA  | LUBLE OIL 2% FING OIL 20% IC OIL 60%   | nal Information  |   | ,   | 8.                     | Of   | b.                   | isted Above  |
| WATER SC<br>LUBRICAT<br>HYDRAULI<br>15. WATER and C<br>USE APPR   | ALUBLE OIL 2X<br>FING OIL 20X<br>IC OIL 60X  | nal Information  | VE EQUIPMENT  |   | 8.                     | Of   | b.                   | isted Above  |
| USE APPE  | AUBLE OIL 23 FING OIL 805 IC OIL 665 Instructions and Addition ROPRIATE PERSON S CERTIFICATION: I here fied, packed, marked, and mment regulations, I certifically practicable and that it   | nal Information  NAL PROTECT!  eby declare that the clabeled, and are in all y that I have a prograil have selected the program in the content of the program in the content of the program in the content of the program in the content of the program in the content of the conten | ontents of this consignment a respects in proper condition in place to reduce the volu acticable method of treatmer; OR, if I am a small quantity   | n for transport b<br>nme and toxicity<br>nt, storage, or o                    | curately highw         | described above ay according to a te generated to the currently available                      | b. d.                | or shipping nam<br>international a<br>I have determ<br>rhich minimizes   |
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|    | UNIFORM NAZARDOUS  | Do   | Manifest<br>cument No.  | 2.   |   |                       | he shaded ar<br>by Federal la  |
|----|--|--|---|--|---|-----------------------|--|
|    | 3. Generator's Name and Mailing Address  | ) 18 13 12 15 13 13 14 19 11   | nioloi3   | A. St  | ate Manifest Docum  |                       |  |
|    | ALLIED SIGNAL AEROSPACE-ELECTRO  |  |   | R St   | 884<br>ate Generator's ID   | 5/1                   | 121  |
|    | 11600 SHERMAN WAY, N. HOLLYWOOD 4. Generator's Phone ( 818 765-1010  | , CA 91605   |   |  |   | , , .                 |  |
|    | 5. Transporter 1 Company Name  | 6. US EPA ID Number  |   | 450 UTES   | ate Transporter's I   | <b>OD</b> .           | 3314°  |
|    | 7. Transporter 2 Company Name  | 8. US EPA ID Number  | 1 2 4   | 100  | ate Transporter's II  | (800)                 | 824-3  |
|    | 4  |  |   | F. Tre   | ansporter's Phone   | 1                     |  |
|    | 9. Designated Facility Name and Site Address  CHENICAL WASTE NANAGEMENT  | 10. US EPA ID Number   |   |  | ate Facility's ID   |                       |  |
|    | 35251 OLD SKYLINE ROAD   |  |   | H. Fa  | Cility's Phone  | 15 4                  | 611  |
|    | KETTLEMAN CITY, CA 93239   | CATO00646  |   | _  | 209) 386-9  |                       |  |
|    | 11. US DOT Description (Including Proper Shipping Name, Haz  | eard Class, and ID Number)   | 12. Con   | Type   | 13. Total<br>Quantity   | 14.<br>Unit<br>Wt/Vol | Wast   |
| ١  | " HATADDONE WASTE SOLID  | DM C NAO+OO  |   | 1  |   | 1                     | State 1  |
|    | HAZARDOUS WASTE SOLID, n.o.s., O<br>(D006, D007, D008) (ALUMINUM OXID  | E DUST)  | 0.0.4   | D.F  | 013141010   | D                     | EPA/Other  |
| ł  | b.   |  | 0 10 14   | 10 1   | C1×141010   | +                     | DOOS, D  |
| -  | CRUSHED DRUMS _ CALIFORNIA REGU  | LATED WASTE ONLY   |   |  |   | 15                    | EPA/Other  |
| 1  | C.   |  | 01316   | DIA  | 01013100  | P                     | State  |
|    |  | f.   | <b>.</b>  |  |   |                       | EPA/Other  |
| I  | d.   | · · · · · · · · · · · · · · · · · · ·  | $\perp \perp \perp$   | 1  |   |                       | State  |
| 1  | u.   |  |   |  |   |                       | <b>汽车</b>  |
|    |  |  | 111   | 1  | 1111  |                       | EPA/Other  |
| 1  | LAX#65191 / CRUSHED D  | OXIDE DUST<br>RUMS   |   | c.   |   | d.                    |  |
|    | LAX 65191 CRUSHED D  15. Special Handling Instructions and Additional Information  |  |   | c.   | 44 .  | d.                    |  |
|    | LAX#65191 CRUSHED D  15. Special Handling Instructions and Additional Information  |  |   | c.   | 4 A 2   | <b>d.</b>             |  |
|    | LAX#65191 CRUSHED D  15. Special Handling Instructions and Additional Information  | RUMS   |   | c.   |   | <b>d</b>              | er er er   |
|    | LAX#65191 CRUSHED D  15. Special Handling Instructions and Additional Information  WEAR APPROPRIATE PERSOANL PROTE   | CTIVE EQUIPMENT  | e fully and ac<br>or transport i  | ccurately  | y described above<br>vay according to ap  | by prope              | or shipping na   |
|    | 15. Special Handling Instructions and Additional Information  WEAR APPROPRIATE PERSOANL PROTE  16.  GENERATOR'S CERTIFICATION: I hereby declare that t and are classified, packed, marked, and labeled, and are national government regulations.  If I am a large quantity generator, I certify that I have a proto be economically practicable and that I have selected the present and future threat to human health and the environ.  | CTIVE EQUIPMENT  the contents of this consignment are in all respects in proper condition for the practicable method of treatment, ment; OR, if I am a small quantity of the contents of the c | or transport in<br>the and toxicity<br>to storage, or<br>the storage or the storage of the | ccurately<br>by highway<br>of was<br>disposal            | vay according to ap<br>ite generated to the<br>currently available                | by prope<br>opticable | I have deter   |
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|    | 15. Special Handling Instructions and Additional Information  WEAR APPROPRIATE PERSOANL PROTE  16.  GENERATOR'S CERTIFICATION: I hereby declare that t and are classified, packed, marked, and labeled, and are national government regulations.  If I am a large quantity generator, I certify that I have a proto be economically practicable and that I have selected the present and future threat to human health and the environ generation and select the best waste management method.  Printed/Typed Name   | the contents of this consignment are in all respects in proper condition for paramin place to reduce the volument; OR, if I am a small quantity of that is available to me and that I  | or transport in<br>the and toxicity<br>to storage, or<br>the storage or the storage of the | ccurately<br>by highway<br>of was<br>disposal            | vay according to ap<br>ite generated to the<br>currently available                | by prope<br>opticable | I have determined the minimizer my was Month Do  |
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|                                       | UNIFORM HAZARDOUS WASTE MANIFEST Q A D Q 083   | 2 5 3 3 4 9 IO  | ument No.                             |                    | of 1 is not  | required  | he shaded i<br>by Federal  |
|---------------------------------------|--|---|---------------------------------------|--------------------|--|---|--|
|                                       | 3. Generator's Name and Mailing Address ALLIED SIGNAL AEROSPACE-ELECTRODYNAM) 11600 SHERMAN WAY, N. HOLLYWOOD, CA 9 4. Generator's Phone ( 818 765-1010  |   |                                       |                    | tate Manifest Documents 1884                                   | 570   | 19 -   |
|                                       | 5. Transporter 1 Company Name 6.   | US EPA ID Number  | · · · · · · · · · · · · · · · · · · · | C. Si              | HAHOB<br>tate Transporter's II                                 |   | 320  |
|                                       | 7. Transporter 2 Company Name 8.   | T 0 3 0 0 3 4<br>US EPA ID Number   | 1 8                                   | E. St              | ansporter's Phone<br>ate Transporter's II<br>ansporter's Phone | OUU   | 824-33<br>7 3 1  |
|                                       | 9. Designated Facility Name and Site Address DEMERNO KERDOON 2100 N. ALAMEDA ST. COMPTON. CA 90222   | US EPA ID Number  |                                       | G. St              | tate Facility's ID   |   | 1  3  3  |
| 0                                     | 11. US DOT Description (Including Proper Shipping Name, Hazard Class,  | 708001  | 12. Con                               |                    | (213) 537-   | 14.   |  |
| 4<br>G                                | " HAZARDOUS WASTE LIQUID, n.o.s., ORM-E  |   | No.                                   | Туре               | Quantity   | Unit<br>Wt/Vol                                    | State 2  |
| E                                     | (waste coolant)  |   | 90                                    | 1 1                | 012181010  | 6   | EPA/Othe   |
| EN A                                  | b.   |   |                                       |                    |  |   | State  |
| ĉ                                     |  |   | , ,                                   |                    | 1 1 1 1  |   | EPA/Other  |
| R                                     | C.   |   |                                       | 1 -                |  |   | State  |
| .                                     |  |   |                                       |                    |  |   | EPA/Other  |
| lt                                    | d.   |   |                                       | 1                  |  |   | State  |
|                                       |  |   |                                       |                    |  |   | EPA/Other  |
|                                       | 15. Special Handling Instructions and Additional Information   |   |                                       |                    |  |   |  |
|                                       | HCF ADDODDSATE BERGELLA DECEMBER   | QUIPMENT  |                                       |                    |  |   |  |
|                                       | USE APPROPRIATE PERSONAL PROTECTIVE E  |   |                                       |                    |  |   |  |
| •                                     | GENERATOR'S CERTIFICATION: I hereby declare that the contents and are classified, packed, marked, and labeled, and are in all respect national government regulations.  If I am a large quantity generator, I certify that I have a program in plat to be economically practicable and that I have selected the practicable present and future threat to human health and the environment: OR if   | ce to reduce the volume to method of treatment, so  | and toxicity                          | oy highw<br>of was | te generated to the  | plicable i  | nternational   |
| •                                     | GENERATOR'S CERTIFICATION: I hereby declare that the contents and are classified, packed, marked, and labeled, and are in all respectational government regulations.  If I am a large quantity generator. I certify that I have a program in please.   | ce to reduce the volume<br>e method of treatment, s<br>I am a small quantity ge<br>illable to me and that I ca              | and toxicity                          | oy highw<br>of was | te generated to the  | plicable i<br>degree l<br>to me wh<br>rt to minir | nternational have deter nich minimize mize my was                      |
| F                                     | GENERATOR'S CERTIFICATION: I hereby declare that the contents and are classified, packed, marked, and labeled, and are in all respect national government regulations.  If I am a large quantity generator, I certify that I have a program in pla to be economically practicable and that I have selected the practicab present and future threat to human health and the environment; OR, if generation and select the best waste management method that is aveing the program of the | ce to reduce the volume to method of treatment, so  | and toxicity                          | oy highw<br>of was | te generated to the  | plicable i<br>degree I<br>to me wh<br>rt to minir | have deternational have deternich minimiz mize my wa  Month D          |
| • F                                   | GENERATOR'S CERTIFICATION: I hereby declare that the contents and are classified, packed, marked, and labeled, and are in all respect national government regulations.  If I am a large quantity generator, I certify that I have a program in pla to be economically practicable and that I have selected the practicab present and future threat to human health and the environment; OR, if generation and select the best waste management method that is available.  **Trinted/Typed Name**  **N. **Mclaughlin**  7. **Transporter 1 Acknowledgement of Receipt of Materials**  | ce to reduce the volume<br>le method of treatment, s<br>I am a small quantity ge<br>ilable to me and that I ca<br>Signature | and toxicity                          | oy highw<br>of was | te generated to the  | plicable i<br>degree I<br>to me wh<br>rt to minir | nternational<br>have deter<br>nich minimiz<br>mize my was              |
| F                                     | GENERATOR'S CERTIFICATION: I hereby declare that the contents and are classified, packed, marked, and labeled, and are in all respect national government regulations.  If I am a large quantity generator, I certify that I have a program in plat to be economically practicable and that I have selected the practicable present and future threat to human health and the environment; OR, if generation and select the best waste management method that is avairated/Typed Name  N. McLaughlin  7. Transporter 1 Acknowledgement of Receipt of Materials   | ce to reduce the volume<br>e method of treatment, s<br>I am a small quantity ge<br>illable to me and that I ca              | and toxicity                          | oy highw<br>of was | te generated to the  | plicable i<br>degree I<br>to me wh<br>rt to minir | have deternational have deternich minimizemize my was                  |
| • F                                   | GENERATOR'S CERTIFICATION: I hereby declare that the contents and are classified, packed, marked, and labeled, and are in all respectantional government regulations.  If I am a large quantity generator, I certify that I have a program in plate to be economically practicable and that I have selected the practicable present and future threat to human health and the environment; OR, if generation and select the best waste management method that is aveing the program of the practical present and future threat to human health and the environment; OR, if generation and select the best waste management method that is aveing the program of the program | ce to reduce the volume<br>le method of treatment, s<br>I am a small quantity ge<br>ilable to me and that I ca<br>Signature | and toxicity                          | oy highw<br>of was | te generated to the  | plicable i<br>degree I<br>to me wh<br>rt to minir | have determined have determined minimizer my was month D 1 1 1 Month D |
| F F F F F F F F F F F F F F F F F F F | GENERATOR'S CERTIFICATION: I hereby declare that the contents and are classified, packed, marked, and labeled, and are in all respectantional government regulations.  If I am a large quantity generator, I certify that I have a program in plato be economically practicable and that I have selected the practicable present and future threat to human health and the environment; OR, if generation and select the best waste management method that is aveing the market of the practical properties.  N. McLaughlin  7. Transporter 1 Acknowledgement of Receipt of Materials  Trinted/Typed Name  8. Transporter 2 Acknowledgement of Receipt of Materials  | ce to reduce the volume to method of treatment, so I am a small quantity getable to me and that I can signature             | and toxicity                          | oy highw<br>of was | te generated to the  | plicable i<br>degree I<br>to me wh<br>rt to minir | have deternational have deternation minimize mixe my wa Month D        |

| WASTE MANIEECT   | nerator's US EPA ID No.  | Manifest<br>Document No.  | 2. Page 1   | Information in the   |  |
|--|--|---|---|--|--|
| 3. Generator's Name and Mailing Address  | 000083253  | 48903   | A. State Mani   | is not required by   |  |
| ALLIED SIGNAL AEROSPACE-E<br>11600 SHERMAN WAY, N. HOL   | Lectrodynamics div<br>Lywood, ca 91605   | TSION .   | B. State Gene   | 8845701  | .8   |
| 5. Transporter 1 Company Name  | 6. US EPA II   | D Number  | C. State Trans  | H 0 3 6 0 3  | 3 0 6  |
| 7. Transporter 2 Company Name  | 8. US EPA  | Number  | D. Transporter E. State Trans F. Transporter  | porter's ID (818)  | 334-6  |
| 9. Designated Facility Name and Site Address   | 10. US EPA II  | D Number  | G. State Facili   | PERSONAL SECTION OF THE PROPERTY OF  |  |
| OIL A SOLVENT PROCESS CO<br>1704 W. FIRST ST<br>AZUSA, CA 91702  |  |   | A PARTY OF THE PROPERTY OF THE PARTY OF THE | o e a b b a.   | 29   |
| 11. US DOT Description (Including Proper Shipping N  |  | 12. Con   | tainers 13.   | <b>334-5117</b><br>Total 14.   | 1,   |
| a.   | tame, Hazard Class, and ID Numbe   | No.   | Туре  | Quantity Unit<br>Wt/Vol  | Waste  |
| RQ.WASTE HEPTANE, FLAMMABLE  | E LIQUID, UN1206 (DO   | - 1   | рмаа  | el ou or a   | A/0213   |
| RO, WASTE FLANMABLE LIQUID,  | n.a.s. Fi Alexani e i  |   |   | St   | at 0001  |
| UN1993(DOD1) (red of) and  | heptane)   | الملم الم   | الم الم أما أما   | 163  | A/0614   |
| ROWASTE FLAMMABLE LIQUID, n.o.   | A SI AMERICA   |   | 0 7 0 0   | 1942   | .te D <b>OO</b>                                  |
| UNITED (Dathe at   | nd thinners)   | 10,   | 0 he a la la  |  | 120ther  |
| WASTE KEROSENE, COMBUSTIBLE  | · · · · · ·  | 001   | U M U U   | 506  | 903,F  |
|  | LIQUID, 4UN1223  | ما ما م   | 1 1 1   | EP   | A221   |
| J. Additional Descriptions for Materials Listed Above  |  | 0 0 2   | Managing Co   | des or Gades Listed  | N/A  |
| LANGE COOP - TENEDLE   | **   |   |   | 21   | 100  |
| LAXF28556 - 144 of   | hentane  | 28  | 01  | 0  | 1  |
|  | heptane<br>thinners  |   | c. 01   | d. ()  | i i i i i i i i i i i i i i i i i i i            |
| b LAXF28556 -red et  | heptane<br>thinners<br>me<br>nation  |   | 01  | d. 0   | /  |
| LAXF28556 - PAGE OF LAXF27942 - PAGE OF LAXF28609 - PAGE OF LAXF28 |  |   | 01  | d. 0   | Parage   |
| 15. Special Handling Instructions and Additional Inform  |  | ī   | · O1  | d. 0   | <u> </u>   |
| 15. Special Handling Instructions and Additional Inform  USE APPROPRIATE PERSONAL P  16.  GENERATOR'S CERTIFICATION: Liberaby decise   | ROTECTIVE EQUIPMEN   |   | 01  | 0,   | Poling gam                                       |
| 15. Special Handling Instructions and Additional Inform  USE APPROPRIATE PERSONAL P  16.  GENERATOR'S CERTIFICATION: I hereby declar and are classified, packed, marked, and labeled, national government regulations.   | ROTECTIVE EQUIPMEN   | nment are fully and ac<br>ondition for transport b  | Curately describe<br>y highway accord   | d above by proper shi  | national a                                       |
| 15. Special Handling Instructions and Additional Inform  USE APPROPRIATE PERSONAL P  16.  GENERATOR'S CERTIFICATION: I hereby declar and are classified, packed, marked, and labeled, national government regulations.  If I am a large quantity generator, I certify that I have seigneen and future threat to human health and the generation and select the best waste management.  | ROTECTIVE EQUIPMEN  are that the contents of this consignand are in all respects in proper contents are a program in place to reduce the contents of the practical are neglected.  | nment are fully and ac<br>ondition for transport b<br>he volume and toxicity<br>eatment, storage, or c  | curately describe y highway accord of waste general   | d above by proper shi  | national a<br>ve determi                         |
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| 15. Special Handling Instructions and Additional Inform  USE APPROPRIATE PERSONAL P  16.  GENERATOR'S CERTIFICATION: I hereby declar and are classified, packed, marked, and labeled, national government regulations.  If I am a large quantity generator, I certify that I have see present and future threat to human health and the generation and select the best waste management printed/Typed Name  N. McLaugh 11  17. Transporter 1 Acknowledgement of Receipt of Material Control of the con | are that the contents of this consignand are in all respects in proper contents are program in place to reduce the practicable method of the environment; OR, if I am a small content that is available to me and signature                          | nment are fully and ac<br>ondition for transport be<br>the volume and toxicity<br>reatment, storage, or of<br>quantity generator, I hand that I can afford. | curately describe y highway accord of waste general   | d above by proper shifting to applicable interested to the degree I has available to me which faith effort to minimize   | ve determinimizes my waste                       |
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IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-700-

| ALLIED SIGNAL AEROSPACE-ELEC   | TRODYNAMICS DIVISION   |   | State Manifest                              | a not required            | -  |
|--|--|---|---|---------------------------|--|
| 11600 SHERMAN WAY, N. HOLLYI<br>4. Generator's Phone ( 818 765-1010  | • .  |   | State Generato                              | Q 3 6 0                   | 3 2 0  |
| 5. Transporter 1 Company Name  BROCO, INC.  7. Transporter 2 Company Name  | 6. US EPA ID Number  [C A T 0 8 0 0 2 2 3  8. US EPA ID Number   | 8 D.  | State Transport Transporter's P             | ter's ID 00<br>hone (714- | 350-470  |
| Designated Facility Name and Site Address  | 10. US EPA ID Number   | F.  | Transporter's P                             | hone                      |  |
| BROCO, INC.<br>2610 N. ALDER<br>RIALTO, CA 92376   | A .  | H.  | State Facility's  C A T 0  Facility's Phone | 8  0  0  2                | 2114   |
| 11. US DOT Description (Including Proper Shipping Nar  | C A T O B O O 2 1  | 12. Containe  | rs 13. Tota<br>Quan                         | tity Unit                 | Wast   |
| NASTE TETRAHYDROFURAM, FLAMP   | ABLE LIQUID, UN 2056,  | 0 10 11 C   | · H   | 25 G                      | State 331 EPA/Other D001 State                                     |
|  |  |   |   |                           | EPA/Other  |
|  |  |   |   |                           | State<br>EPA/Other   |
|  |  |   |   |                           | State  |
| J. Additional Descriptions for Materials Listed Above  |  |   | Handling Codes                              |                           | EPA/Other  |
| 8  |  | ă.  | 99  | b.                        |  |
| 18   |  | C.  |   | d.                        |  |
| I CAPIUSIVE, SHOCK FEECEION, TI  | ammable. Keepaway from   | n open fla<br>Xment.  | me. Har                                     | idle as                   | explost  |
| 16.  GENERATOR'S CERTIFICATION: I hereby declare and are classified, packed, marked, and labeled, an national government regulations.  If I am a large quantity generator, I certify that I hav to be economically practicable and that I have select present and future threat to human health and the egeneration and select the best waste management.  Printed/Typed Name  | that the contents of this consignment are dare in all respects in proper condition for a program in place to reduce the volume cited the practicable method of treatment, provingment: OR, if I am a small quantity or   | or transport by hig<br>and toxicity of w<br>storage, or dispo | phway according<br>vaste generated          | to applicable             | I have determ  |
| 16.  GENERATOR'S CERTIFICATION: I hereby declare and are classified, packed, marked, and labeled, an national government regulations.  If I am a large quantity generator, I certify that I hav to be economically practicable and that I have selepresent and future threat to human health and the egeneration and select the best waste management.   | e that the contents of this consignment are id are in all respects in proper condition for e a program in place to reduce the volume cited the practicable method of treatment, provingment; OR, if I am a small quantity genethod that is available to me and that I consider the content of the c | or transport by hig<br>and toxicity of w<br>storage, or dispo | phway according<br>vaste generated          | to applicable             | international I have detern hich minimize imize my was             |
| 16.  GENERATOR'S CERTIFICATION: I hereby declare and are classified, packed, marked, and labeled, an national government regulations.  If I am a large quantity generator, I certify that I hav to be economically practicable and that I have select present and future threat to human health and the experiment of an area of the printed/Typed Name  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Material Printed/Typed Name  LERRY HUBR BROCO                                       | that the contents of this consignment are id are in all respects in proper condition for e a program in place to reduce the volume cted the practicable method of treatment, invironment; OR, if I am a small quantity greathed that is available to me and that I consider the property of the state of the property of the p | or transport by hig<br>and toxicity of w<br>storage, or dispo | phway according<br>vaste generated          | to applicable             | international I have detern hich minimize imize my was             |
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| WASTE MANIFEST   | Manifest<br>cument No.   | 1  |  |                                      | he shaded :<br>by Federal                       |
|--|--|--|--|--------------------------------------|---|
| 3. Generator's Name and Mailing Address  | 10.5.0   | A. Sta   | te Manifest Docu   | ment Num                             | ber   |
| ALLIED SIGNAL AEROSPACE-ELECTRODYNAMICS DIVISION   |  | 0 010  | 884<br>te Generator's ID   | 510                                  | 115   |
| 4 dalegg SHERMAN MAY, N. HOLLYWOOD, CA 91605   | - #1   | Service Control  | le Generator's ID  | 1.1                                  | 1 1 1   |
| 5. Transporter 1 Company Name 765-1010 . 8. US EPA ID Number   |  | C. Sta   | to Transporter's   | 6 6                                  | 3130  |
| 7. Transporter 2 Company Name  9. Designated Facility Name and Site Address  10. US EPA ID Number  |  | D. Transporter's Phone  E. State Transporter's ID (800) 824- |  |                                      |   |
|  |  | SECURITION OF  | nsporter's Phone   |                                      |   |
|  |  | G. State Facility's ID                                       |  |                                      |   |
| DEMENNO KERDOON<br>2100 N. ALAMEDA ST.   |  | H. Fac   | My Andreo  | 0 0                                  | 133   |
| COMPTON. CA 90222    C   A   T   O   8   O   O   1   3   | 3 5 2  | (2   | 13) 537-1  | 7100                                 | 1.  |
| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)   | 12. Cont   | Type   | Quantity   | Unit<br>Wt/Vol                       | Wa  |
| a.   | ,,,,,,   |  |  |                                      | State   |
| WASTE PETROLEUM OIL, N. O. S., COMBUSTIBLE LIQUID  |  |  |  |                                      | EPA/Oth   |
| UN 1270  | BIGIT  |  | 02000  | 7                                    | State   |
| 2.   |  |  |  |                                      | EPA/Othe  |
| c.   | $+$ 1 $\perp$  |  |  |                                      | State   |
| - Table 1  |  |  |  |                                      | EPA/Othe  |
|  |  |  |  |                                      |   |
| d.   |  |  |  |                                      | State   |
| - Pa   | 1.1  | 1  | 1111   |                                      | EPA/Othe  |
| LUBRICATING OIL 20%  |  | C.   |  |                                      |   |
| HYDRAULIC OIL 60% WATER 20%  15. Special Handling Instructions and Additional Information  |  | <b>. C</b>   |  |                                      |   |
| HYDRAULIC OIL 60%  |  |  |  |                                      |   |
| HYDRAULIC OIL 608 WATER 205  15. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSOANL PROTECTIVE EQUIPMENT  16.  |  |  |  |                                      |   |
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9-88) Previous editions are obsolete

| 1                            | UNIFORM HAZARDOUS Generator's U  | iter).<br>S EPA ID No.   | Manifest  | 2. F                                     | age 1   | Informe  | ation in th                                | Sacramento,<br>he shaded areas   |
|------------------------------|--|--|---|--|---|--|--|--|
|                              | WASTE MANIFEST   MA IND IN   |  | Document No.  |  | of  | 1  |  | by Federal law.  |
| 3.                           | Generator's Name and Mailing Address   | - 86 3 85 5 40   | 7   | A. Sta                                   | te Manife   |  | ent Num                                    | ber  |
|                              | ALLIED SIGNAL AEROSPACE-EL   | ECTRODYNAMICS  | DIVISI  | ON                                       | 8   | 84   | 5/0  | 114  |
| 1                            | 11600 SHERMAN WAY, N. HOLLYWOO   | D, CA 91605  |   | CHARLESTER                               | te Genera   | \$59 PH-955C   |  |  |
|                              | Transporter 1 Company Name   | 6. US EPA ID Numb  | \ <b>A</b> Z  | -  | te Transp   | and the second section is                                      | 6.0  | 3 2 0 5  |
|                              | DISPOSAL CONTROL SERVICE   | IC A IT 10 13 10 10 13   |   | 15 ST THE ST                             | nsporter's  | ORNOR LINES  | 1000                                       | 7.2.3 -8   |
| 7.                           | Transporter 2 Company Name   | 8. US EPA ID Numb  |   | E. Sta                                   | te Transp   | orter's IC   | (SOO)                                      | 624-334  |
|                              |  | 1 1 1 1 1 1 1  |   | F. Tra                                   | nsporter's  | Phone  |  |  |
| 9.                           | Designated Facility Name and Site Address  | 10. US EPA ID Numb   | per   | G. Sta                                   | te Facility   | y's ID   |  | 16.76.3-75   |
|                              | DEMENNO KERDOON  |  |   | H. Fac                                   | G A   | 0 8  | 00   | 1335   |
|                              | 2100 N. Alameda ST.  |  | 24 5 2  |  |   |  |  |  |
| $\vdash$                     | Compton, CA 90222  | CALOROOI   | 12. Cont  | ainers                                   | 213)  | 537-   | 7100                                       | 6.7  |
| 11                           | . US DOT Description (Including Proper Shipping Name, Haz  | ard Class, and ID Number)  | No.   | Туре                                     | Qı  | antity   | Unit<br>Wt/Vol                             | Waste N  |
| a.                           |  |  |   |  |   |  |  | State  |
|                              | HAZARDOUS WASTE LIQUID, n.o.s.,  | ORM-E, NA 9189   |   |  |   |  |  | EPA/Other  |
| Ļ                            | (waste coolant)  |  | 0 0 1   | TIT                                      | النان   | 1010   | •  | N  |
| b.                           |  |  |   |  |   |  |  | State  |
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| c.                           |  |  |   |  |   |  | - 3  | State  |
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| d.                           | 2  | ,  |   | •  |   |  |  | State  |
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|                              |  |  |   | _1_                                      | 11  | 11   |  | <b>一种联系</b>  |
|                              | Additional Descriptions for Materials Listed Above  Water soluble of la  lubricating of la   | , , , , , , , , , , , , , , , , , , ,  | ř.  | K. Ha<br>a.                              | A/  |  | b.   | isted Above  |
|                              | water soluble oils lubricating oils water  |  |   | a.                                       | B/  |  | b.   | isted Above  |
|                              | water soluble oils lubricating oils  | TIVE EQUIPMENT   |   | a.                                       | B/  |  | b.   | isted Above  |
| •                            | vater soluble of its indepleting of its vater.  Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTEC  GENERATOR'S CERTIFICATION: I hereby declare that the and are classified, packed, marked, and labeled, and are national government regulations.  | ne contents of this consignment<br>n all respects in proper condition  | on for transport t  | c. c.                                    | describe  | d above  | d.   | er shipping name<br>international and  |
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ellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

|                                      | WASTE MANUFECT  |  | Manifest<br>cument No.                                  | P. C.                           |  |  | the shaded areas<br>d by Federal law,   |
|--------------------------------------|---|--|---|---------------------------------|--|--|---|
|                                      | ALLIED SIGNAL AEROSPACE-ELECTI<br>11600 SHERMAN WAY, N. HOLLYWOOI   | SORYNANTCE REVIETAN  | 2 - Q1 - Z1   |                                 | ate Manifest Do  | 457                                      |   |
|                                      | 5. Transporter 1 Company Name   | 6. US EPA ID Number  |   | 244                             | HAHO   | 3 6                                      | 0 3 2 0 6 7   |
|                                      | DISPOSAL CONTROL SERVICE  | ICIAITIO 8 0 0 3   | li ti oi i  | D. Tr                           | ate Transporter<br>ansporter's Pho                     | s ID                                     |   |
|                                      | 7. Transporter 2 Company Name   | 8. US EPA ID Number  | 0   | E. St                           | ate Transporter  | s ID /                                   | 824-3345  |
| 1                                    | Designated Facility Name and Site Address   | 10. US EPA ID Number   | 111   |                                 | ansporter's Phor                                       | 711.                                     | 983 634   |
|                                      | CHEMICAL WASTE MANAGEMENT<br>35251 GLD SKYLINE ROAD   | SS ELV ID Rumber   |   |                                 | ate Facility's ID                                      | 000                                      | 46117   |
|                                      | KETTLEMAN CITY, CA 93239  | ICIATODOG46  |   |                                 | 09) 386-   | 9711                                     |   |
|                                      | 11. US DOT Description (Including Proper Shipping Name, F   | lazard Class, and ID Number)   | 12. Con<br>No.  | Type                            | 13. Total<br>Quantity                                  | 14.<br>Unit<br>Wt/Vo                     | L.<br>Waste No.   |
| 6                                    | HAZARDOUS WASTE LIQUID, N.O.S.  | , ORM-E, HA9189(F006   | )   |                                 |  |  | State 726   |
| N                                    | (MICHEL SOFINENIE)  |  | 993   | DF                              | 9991   | 5 6                                      | EPA/Other F00   |
| A                                    | •   |  | -   |                                 |  |  | State   |
| 0                                    | 2   |  |   |                                 |  |  | EPA/Other   |
| R                                    | c.  | × .  |   |                                 |  |  | State   |
| ı                                    |   | Α.   |   |                                 |  |  | CENTRAL STATE   |
| ı                                    | d.  |  |   |                                 | 111  | ļ.                                       | EPA/Other   |
| 1                                    | 1   |  |   |                                 |  |  | State   |
| ı                                    |   | ,  |   |                                 |  |  | EPA/Other   |
| 1                                    | J. Additional Descriptions for Materials Listed Above PROFILE LAX H56417 Nickel Suif  |  |   | К. Нап                          | dling Codes for  | Wastes Li                                | sted Ahove  |
| l                                    | 15. Special Handling Instructions and Additional Information USE PROPER PERSONAL PROTECTIVE   | EQUIPMENT  | 45 1 5  | *= 12.                          |  |  | W - 1   |
|                                      | J.  |  |   |                                 | lascribed shows  | by proper                                | Shinning name   |
|                                      | 16.  GENERATOR'S CERTIFICATION: I hereby declare that and are classified, packed, marked, and labeled, and are national government regulations.  If I am a large quantity generator, I certify that I have a proposed to be economically practicable and that I have released.  | ogram in place to reduce the volume as   | nd toxicity   | of weets                        | Concreted to the                                       | ppiicable ii                             | nternational and  |
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| TR                                   | GENERATOR'S CERTIFICATION: I hereby declare that and are classified, packed, marked, and labeled, and are national government regulations.  If I am a large quantity generator, I certify that I have a property to be economically practicable and that I have selected the present and future threat to human health and the environ generation and select the best waste management method Printed/Typed Name  Mary McLaughlin   | ogram in place to reduce the volume and the practicable method of treatment, stoment; OR, if I am a small quantity gene did that is available to me and that I can Signature   | nd toxicity   | of waste<br>sposal ci<br>e made | Concreted to the                                       | e degree I<br>to me wh<br>ort to minin   | nternational and<br>have determined<br>ich minimizes the<br>nize my waste                                       |
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| A N SP OF L                          | GENERATOR'S CERTIFICATION: I hereby declare that and are classified, packed, marked, and labeled, and are national government regulations.  If I am a large quantity generator, I certify that I have a proceed to be economically practicable and that I have selected it present and future threat to human health and the environ generation and select the best waste management method.  Printed/Typed Name  Mary McLaughlin  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  | ogram in place to reduce the volume are practicable method of treatment, sto ment; OR, if I am a small quantity gene d that is available to me and that I can  | nd toxicity<br>prage, or di-<br>rator, I hav<br>afford. | of waste<br>sposal ci<br>e made | Concreted to the                                       | e degree I                               | have determined ich minimizes the nize my waste  Month Day Year   |
| A<br>N<br>S<br>P<br>O<br>R<br>T<br>E | GENERATOR'S CERTIFICATION: I hereby declare that and are classified, packed, marked, and labeled, and are national government regulations.  If I am a large quantity generator, I certify that I have a proceed to be economically practicable and that I have selected the present and future threat to human health and the environ generation and select the best waste management method.  Printed/Typed Name  Mary McLaughlin  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name   | ogram in place to reduce the volume are practicable method of treatment, stoment; OR, if I am a small quantity gened that is available to me and that I can  Signature  Signature  | nd toxicity<br>prage, or di-<br>rator, I hav<br>afford. | of waste<br>sposal ci<br>e made | Concreted to the                                       | e degree I                               | have determined ich minimizes the nize my waste  Month Day Year  Month Day Year                                 |
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| A N SP ORT                           | GENERATOR'S CERTIFICATION: I hereby declare that and are classified, packed, marked, and labeled, and are national government regulations.  If I am a large quantity generator, I certify that I have a provided to be economically practicable and that I have selected it present and future threat to human health and the environ generation and select the best waste management method.  Printed/Typed Name  Mary McLaugh I in  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  | ogram in place to reduce the volume are practicable method of treatment, stoment; OR, if I am a small quantity gened that is available to me and that I can Signature  Signature  Signature  | nd toxicity prage, or distrator, I hav afford.          | of waste sposal or e made       | generated to the urrently available a good faith effor | e degree I                               | have determined ich minimizes the nize my waste  Month Day Year  Month Day Year                                 |
| A N S P O R T III R                  | GENERATOR'S CERTIFICATION: I hereby declare that and are classified, packed, marked, and labeled, and are national government regulations.  If I am a large quantity generator, I certify that I have a provided to be economically practicable and that I have selected the present and future threat to human health and the environ generation and select the best waste management method Printed/Typed Name  Mary McLaugh In  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name   | ogram in place to reduce the volume are practicable method of treatment, stoment; OR, if I am a small quantity gened that is available to me and that I can Signature  Signature  Signature  Signature  Ous materials covered by this manifest | nd toxicity prage, or distrator, I hav afford.          | of waste sposal or e made       | generated to the urrently available a good faith effor | e degree I                               | have determined ich minimizes the nize my waste  Month Day Year  Month Day Year                                 |
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| 3.    |   | ment No.   | 2.                                    | of •            |  |  | he shaded ar<br>by Federal Is   |
|-------|---|--|---------------------------------------|-----------------|--|--|---|
| l i   | WASTE MANIFEST CABOOS 3 2 5 3 3 4 8 9 Generator's Name and Mailing Address  | 0.2  | A. SI                                 |                 | nifest Docum   | -  |   |
|       | ALLIED SIGNAL AEROSPACE-ELECTRODYNAMICS DIVISION  |  |                                       |                 | 884  | 570                                      | 111 v   |
| 4.    | 11600 SHERMAN NAY, N. HOLLYWOOD, CA 91606<br>Generator's Phone 818 ) 765-1010   |  |                                       |                 | H 0 3  | 40:                                      |   |
| 5.    | Transporter 1 Company Name 6. US EPA ID Number  |  | C. S                                  | tate Trai       | nsporter's I   |  | טטרט  |
| ļ_    | DISPOSAL CONTROL SERVICE GATOSO Q 3 4  Transporter 2 Company Name 8. US EPA ID Number   | 18   | PEC 200                               | HIT SECTION     | er's Phone   | (800                                     | 0)824-3   |
|       | Transporter 2 company Name  |  | 11-32-1-53                            | Tero properties | er's Phone   |  |   |
| 9.    | DESIgnated Facility Name and Site Address 10. US EPA ID Number DEMENNO KERDOON  | was we want  | G. S                                  |                 | cility's ID  |  |   |
|       | 2100 N. ALAHEDA ST.   |  | H. F                                  | acility's       | Phone Phone  | 10 10                                    | 11  3  3  |
| L     | COMPTON, CA 90222   GATQ8QQ13   |  | 2                                     | (21             | A CONTRACTOR OF THE PARTY OF TH | -7100                                    | )   |
| 1     | US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)  | 12. Cor<br>No.   | tainers<br>Type                       |                 | . Total<br>Quantity  | 14.<br>Unit<br>Wt/Vo                     | Was   |
| a.    | was a series of the series of |  | 1                                     | 1               |  | 1  | State 2   |
|       | HAZARDOUS WASTE LIQUID, N.O.S., ORM-E NA9189 P.O.   | 0.0  | 4 -                                   | 103             | 31000  |  | EPA/Other   |
| Ь.    | (waste coolant)   | 7 4  | 7-1                                   | درو             |  |  | State   |
|       |   |  |                                       |                 |  |  | EPA/Other   |
| c.    |   |  | $+$ $\perp$                           | +-              |  | -  | State   |
| 1     |   |  |                                       |                 |  |  | EPA/Other   |
|       |   |  | 1 1                                   |                 | 111  | 1  | 11/2003 11/20   |
| 1     |   |  |                                       |                 |  | <del></del>                              | State   |
| d.    |   |  |                                       |                 |  |  | State   |
|       | Additional Descriptions for Materials Listed Above water soluble etls Alacuco Pour le lubricating of 1s   |  | K. H                                  | tandling        | Codes for  | Wastes I<br>b.                           | State<br>EPA/Other<br>Listed Above  |
| J.    | Additional Descriptions for Materials Listed Above  Water soluble ells Advucb Pour le  lubricating ells  water per profile  5. Special Handling Instructions and Additional Information   |  |                                       | landling O)     | Codes for  | <b>b</b> .                               | EPA/Other   |
| J.    | Additional Descriptions for Materials Listed Above  water soluble ells  lubricating oils  water per profile  5. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT  6.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition for national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, s present and future threat to human health and the environment; OR, if I am a small quantity generator.   | r transport<br>and toxic<br>storage, or<br>enerator, I | accurate by high ity of was r disposi | o)              | ribed above cording to a erated to the thity available   | b. d. by propipplicable are degree to me | EPA/Other  Er shipping na a international e I have deter which minimiz                          |
| J. 18 | Additional Descriptions for Materials Listed Above  Water soluble etts  Advice  Lubricating ofts  Water per profile  5. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT  8.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition for national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, spresent and future threat to human health and the environment; OR, if I am a small quantity ge generation and select the best waste management method that is available to me and that I considered.  | r transport<br>and toxic<br>storage, or<br>enerator, I | accurate by high ity of was r disposi | o)              | ribed above cording to a erated to the thity available   | b. d. by propipplicable are degree to me | EPA/Other  Er shipping na a international e I have deter which minimiz                          |
| J. 16 | Additional Descriptions for Materials Listed Above  water soluble ells  Lubricating ells  water per profile  5. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT  6.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition for national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, s present and future threat to human health and the environment; OR, if I am a small quantity ge generation and select the best waste management method that is available to me and that I contents to the practicable and that I can be selected the practicable method of treatment, s present and future threat to human health and the environment; OR, if I am a small quantity ge generation and select the best waste management method that is available to me and that I can be selected the practicable method of treatment, s present and future threat to human health and the environment; OR, if I am a small quantity ge  | r transport<br>and toxic<br>storage, or<br>enerator, I | accurate by high ity of was r disposi | o)              | ribed above cording to a erated to the thity available   | b. d. by propipplicable are degree to me | EPA/Other  Er shipping na e international e I have deter which minimiz                          |
| J. 16 | Additional Descriptions for Materials Listed Above  water soluble ells  lubricating oils  water per profile  5. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT  6.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition for national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, so present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I crinted/Typed Name  M. McLaughlin  7. Transporter 1 Acknowledgement of Receipt of Materials   | r transport<br>and toxic<br>storage, or<br>enerator, I | accurate by high ity of was r disposi | o)              | ribed above cording to a erated to the thity available   | b. d. by propipplicable are degree to me | er shipping na e international et have deter which minimiz nimize my wa                         |
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| J. 19 | Additional Descriptions for Materials Listed Above  water soluble ells  lubricating oils  water per profile  5. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT  6.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition for national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, so present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I crinted/Typed Name  M. McLaughlin  7. Transporter 1 Acknowledgement of Receipt of Materials   | r transport<br>and toxic<br>storage, or<br>enerator, I | accurate by high ity of was r disposi | o)              | ribed above cording to a erated to the thity available   | b. d. by propipplicable are degree to me | er shipping na e internationa e I have dete which minimiz nimize my wa                          |
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(Rev. 9-88) Previous editions are obsolete.

| -  | Docu-   | lanifest<br>ument No.   | ľ  | age 1   | Informa   | tion in th     | e shaded areas  |
|----|---|---|--|---|---|----------------|---|
| 3. | WASTE MANIFEST DADDD 3 3 5 3 4 5 5 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | 1024  |  | of<br>te Manife   | is not re   | equired t      | by Federal law.   |
| -  | ALLIED SIGNAL AEROSPACE-ELECTRODYNAMICS DIVISION 11600 SHERMAN WAY, N. HOLLYWOOD; CA 91605 Generator's Phone (818) 765-1010   |   | *  | te Genera   | 845   | 570            | 10  |
|    | Transporter 1 Company Name 6. US EPA ID Number  |   | C. Sta   | te Transp   | orter's D   | 83.            | 2967.   |
| 7. | Transporter 2 Company Name  LOS EPA ID Number  US EPA ID Number   | 184   | E. Sta   | nsporter's<br>te Transp   | orter's ID  | (808)          | 824-3345  |
|    | Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE ROAD  | 14 14 17  | H. A.  | My Jel  | 0 0   | 16141          | 61117   |
|    | LUS DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)   | 12. Cont  | ainers<br>I  | 13. 1   | otal<br>uantity   | 14.<br>Unit    | I.<br>Waste No.   |
|    | HAZARDONS WASTE LIQUID.D.O.SORM-E.NA9189(DOOG)  | 0 0 11  | D  F   | 0 10 10   | 0 10 15   | Wt/Vol         | State EPA/Oth7/22 SACO6   |
| ь  | HAZARDOUS WASTE LIQUID, n.e.s., ORM-E, NA9189(DOO6) (Waste sodium bichromate and water)   | 0 10 15   | DIF  | 0 10 12   | 2  5  0   | 6              | EPA/Oth7/23   |
|    | HAZARDOUS WASTE SOLID, n.o.s., ORM-E, NA9189 (DOO6, DOO<br>(waste hydraulic still bottoms) DOO8)  | 0 0 3   | DF   | (<br>   | 9.75  | Y              | EPA/06.22<br>0006,007,008   |
| 6  |   |   |  |   |   |                |   |
| ١  |   | l   | ١.   | ١   |   |                | EPA/Other   |
|    | J. Additional Descriptions for Materials Listed Above  Profile LAXJ74480 Tin Fluoborate & water LAXJ74482 Sodium bichromate &water  |   | K. H<br>a.   | andling C   | odes for V  | Wastes I<br>b. | isted Above   |
|    | Profile LAXJ74480 Tin Fluoborate & water LAXJ74482 Sodium bichromate &water LAXJ74477 hydrualic still bottoms  15. Special Handling Instructions and Additional Information   |   | a.   | landling C  | odes for V  | b.             | S5 Gal DF   |
|    | Profile LAXJ74480 Tin Fluoborate & water LAXJ74482 Sodium bichromate Ewster LAZJ74477 hydrualic still bottoms   |   | a.   | landling C  | odes for t  | d.             | SS Gal DE   |
|    | Profile LAXJ74480 Tin Fluoberate & water LAXJ74482 Sodium bichromate & water LAXJ74482 Sodium bichromate & water LAXJ74477 hydrualic still bottoms  15. Special Handling Instructions and Additional Information  wear appropriate personal protective equipment  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment as and are classified, packed, marked, and labeled, and are in all respects in proper condition national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volum to be economically practicable and that I have selected the practicable method of treatment.  | me and toxic<br>t, storage, o<br>generator, t                   | a.  c.  c.  accurate by high   | ely descril<br>hway acco  | bed above   | b. d.          | SS Gal DF  Ger shipping name le international and see! have determined which minimizes the animimize my waste   |
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|    | Profile LAXJ74480 Tin Fluoberate & water LAXJ74482 Sodium bichromate & water LAXJ74477 hydrualic still bottoms  15. Special Handling Instructions and Additional Information  wear appropriate personal protective equipment  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment as and are classified, packed, marked, and labeled, and are in all respects in proper condition national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volunt to be economically practicable and that I have selected the practicable method of treatment present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I Printed/Typed Name  Signature  M. McLaughlin  17. Transporter 1 Acknowledgement of Receipt of Materials  Signature  Signature  Signature  Signature  Signature  Signature  Signature  Signature  | me and toxic<br>t, storage, o<br>generator, I<br>I can afford.  | a.  c.  c.  accurate by high   | ely descril<br>hway acco  | bed above   | b. d.          | SS Gal DF  Gol DF  Der shipping name le international and which minimizes the animize my waste  Month Day Year  |
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|       | UNIT OTHER MANAGEMENT  | erator's US EPA ID No.   | Manifest Pocument No.  | 2. Page<br>of  | monia  |                                     | e shaded areas<br>by Federal law.   |
|-------|--|--|--|--|--|-------------------------------------|---|
| 3     | . Generator's Name and Mailing Address   |  | An anyther to  | A. State Ma  | nifest Docum   | ent Numi                            | er _ /  |
|       | ALLIED SIGNAL AEROSPACE-ELE<br>11600 SHERMAN WAY, N. HOLLY   |  | H  | B. State Ge  | nerator's ID   | )   (                               | 31/   |
| 4     | Generator's Phone (818) 765-1010   | MODEL ON STOUS.  |  | The second secon | and the second second  |                                     | 3206  |
| 5     | . Transporter 1 Company Name   | 6. US EPA ID Nurr  |  | C. State Tra   | ensporter's ID   | 70                                  | 1090  |
| 7     | DISPOSAL CONTROL SERVICE  Transporter 2 Company Name   |  |  | - SOUTH TAXABLE  | nsporter's ID  | Conn                                | 1 024-33  |
|       |  |  |  | F. Transpor  | OF THE PARTY OF THE PARTY.   |                                     |   |
| 9     | Designated Facility Name and Site Address  DEMENNO KERDOON   | 10. US EPA ID Num  | nDer   | G. State Fa  | Control of the Control of the  |                                     | 1 4 4 4   |
|       | 2100 N. ALAMEDA ST   |  |  | H. Facility's  | 2005438120   | ASSESSED V                          | 1335  |
| L     | COMPTON. CA 90222  | CATOSOG  | 1 3 3 5 2<br>12. Cont  | (213)  | 537-71<br>3. Total   | 00                                  | 1,  |
| 1     | 1. US DOT Description (Including Proper Shipping Na  | ame, Hazard Class, and ID Number)  | No.  | Туре   | Quantity   | Unit<br>Wt/Vol                      | Waste N   |
| a     | MASTE PETROLEUM OIL, N.O.S.  | COMBUSTIBLE LIGHTE   |  |  |  |                                     | State 221   |
|       | UN 1270  | 19 Animostrack Pidate  |  | TITO   | 1,500  | 6                                   | EPA/Other<br>N/A  |
| b     | ). ·   | ** J   |  |  |  |                                     | State   |
|       |  |  |  |  |  |                                     | EPA/Other   |
| С     | <del></del>  |  | ,  |  | _1_1_  |                                     | State   |
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| ľ     | •  |  |  |  |  |                                     | EPA/Other   |
|       | I. Additional Descriptions for Materials Listed Above  |  |  |  | Codes for V  | (22422.15                           | Ar Sey Little   |
| 1     | 5. Special Handling Instructions and Additional Inform   | nation   |  |  |  |                                     |   |
|       | USE APPROPRIATE PERSONAL PR  | ROTECTIVE EQUIPMENT  |  | *  |  |                                     |   |
| ı     |  |  |  | ***  |  |                                     |   |
| -     | 16.  |  |  |  |  |                                     | r chinning name   |
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(Rev. 9-88) Previous editions are obsolete.

Department of Health Services
Toxic Substances Control Division

| rint or type. (Form designed for use on elite (12  |  |   |   |   | <del> </del>                           |   | Sacramento, Californ  |
|--|--|---|---|---|--|---|---|
| ONII ONIII NAZANDOUS   | Generator's US EPA ID No.<br>  A  D  O  O  8  3  2  5  3  3  | Manifes<br>Document<br>RI QI OI   | No.   | 2. Page<br>of                             | miorine                                |   | e shaded areas<br>by Federal law.   |
| 3. Generator's Name and Mailing Address  | MUUUU 0 3 6 3 3 3  | N 41 OI N VI  | A.  |   | anifest Docum                          |   |   |
| ALLIED SIGNAL AEROSPACE-   | ELECTRODYNAMICS DIVI   | ISION   | 2   |   | 883                                    | 100                                     | 211.  |
| 11600 SHERMAN WAY, N. HO   | LLYWOOD, CA 91605  | a wa wii  | В.  | State G                                   | enerator's ID                          |   |   |
| 4. Generator's Phone (818) 765-1010  |  |   | 59  | HAI                                       | DBB                                    | n 13                                    | 20671   |
| 5. Transporter 1 Company Name  | 6. US EPA I  | ID Number   | C.  | State Tr                                  | ansporter's IC                         |   | 7198  |
| OILASOLVENT PROCESS CO.  | I CLAI DI OLOI S   |   | 0 3 D.  | Transpo                                   | rter's Phone                           | 818)                                    | 334-5117  |
| 7. Transporter 2 Company Name  | 8. US EPA  | ID Number   |   | 100 - 210                                 | ansporter's IC                         | 94522                                   |   |
|  |  | <u> </u>  |   | -   | rter's Phone                           | 1000                                    |   |
| 9. Designated Facility Name and Site Address   |  | ID Number   | G.  | - A 455                                   | acility's D                            |   |   |
| OIL & SOLVENT PROCESS CO   | )  |   | H   | Facility's                                | Phone                                  | 83                                      | 0 2 9 9 3   |
| 1704 W. FIRST ST.  | I CI AI DI OI OI S   | 0131013101  |   |   | 334-                                   |   |   |
| AZUSA. CA 91702  | I CI AI DI OI DI R   |   | . Containe  | _   | 3. Total                               | 14.                                     | <b></b>   |
| <ol> <li>US DOT Description (Including Proper Shipping)</li> </ol>   | ing Name, Hazard Class, and ID Numb  | per)  | lo. Ty  | ре  | Quantity                               | Unit<br>Wt/Vol                          | Waste No.   |
| 1.   |  |   |   |   | ······································ |   | State   |
| RQ, WASTE FLAMMABLE LIQUI  | D,N.O.S.,FLAMMABLE I   | LIQUID,   |   |   |  |   | EPA/Other   |
| UN1993(D001)(Red of1 and   | i heptane)   | O <sub>I</sub>  | 0 <sub>1</sub> 1 D  | MD (                                      | рбр                                    | G                                       | D001  |
| ).   |  |   |   |   |  |   | State   |
| RQ, WASTE HEPTANE, FLAMMAB   | RE FIGNID'ANTSOE(DO  |   |   |   |  |   | 213<br>EPA/Other  |
|  |  | p_1   | OID   | LMD !                                     | ррр                                    | G                                       | 0001  |
|  |  |   |   |   |  |   | State 221   |
| WASTE KEROSENE, COMBUSTIB  | BLE LIQUID, UN1223   | bo  | 10  | Mbc                                       | 0 5 0                                  | G                                       | EPA/Other   |
|  |  |   |   |   | 777                                    | 1                                       | N/A<br>State  |
| i.   | IL PEODUTA DECIH ATED  | ON V  |   |   |  |   |   |
| WASTE HYDRAULIC FLUID, CA  | ILITUKNIA KEGULATEN I  | UNLY D (  |   | 4   |  | 6                                       | EPA/Other   |
|  |  |   | )   | MDG                                       | 3 6 0                                  | 1 63                                    | R/A   |
| •  |  | P_}   |   | Handlin                                   | g Codes for V                          |   | isted Above   |
| J. Additional Descriptions for Materials Listed Al<br>Proffle aLAXF28556-red<br>bLAXF28557-hep<br>cLAXF28609-ker<br>dLAXF28554-sky<br>15. Special Handling Instructions and Additional   | oil and heptane<br>otane<br>osene<br>drol and water<br>Information   |   |   | Handlin                                   | Codes for V                            | Vastes L                                | O/  |
| J. Additional Descriptions for Materials Listed Al<br>Proffice aLAXF28556-red<br>bLAXF28557-hep<br>cLAXF28609-ker  | of and heptane otane osene drol and water Information PROTECTIVE EQUIPME  y declare that the contents of this contents of this contents of the | NT  Isignment are fully or condition for transce the volume and of treatment, storall quantity general                    | and accursport by h   | ately designway a                         | g Codes for V                          | by proper pplicable to me ve e to me ve | or shipping name international and the lave determined which minimizes the  |
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| J. Additional Descriptions for Materials Listed Al Profile a.—LAXF28556-red b.—LAXF28557-hep c.—LAXF28609-ker d.—LAXF28554-sky  15. Special Handling Instructions and Additional USE APPROPRIATE PERSONAL  16.  GENERATOR'S CERTIFICATION: I hereby and are classified, packed, marked, and lab national government regulations.  If I am a large quantity generator, I certify the obe economically practicable and that I had present and future threat to human health a generation and select the best waste management of the property of the property of the present and future threat to human health a generation and select the best waste management of the property of the present and future threat to human health a generation and select the best waste management of the property of the present and future threat to human health a generation and select the best waste management.  | of and heptane otane rosene drol and water Information PROTECTIVE EQUIPME  y declare that the contents of this contents of this contents of the contents of th | NT  Isignment are fully or condition for transce the volume and of treatment, storall quantity general                    | and accursport by h   | ately designway a                         | g Codes for V                          | by proper pplicable to me ve e to me ve | er shipping name international and at I have determined which minimizes the nimize my waste   |
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CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL

CASE OF AN EMERGENCY OR SPILL, CALL

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| California—Health and Welfare Agency   | (E)(S)   | - e   |  |  |  | Department of Health Se<br>Toxic Substances Control D<br>Sacramento, Cai |
|--|--|---|--|--|--|--|
| UNIFORM HAZARDOUS WASTE MANIFEST   | 1. Generator's US EPA II                                       | Do  | Manifest<br>cument No.                       | 2. Page  | Illionia   | tion in the shaded areas<br>equired by Federal law.                      |
| 3. Generator's Name and Mailing Address<br>ALLIED's SIGNAL AEROSP<br>11600 SHERMAN WAY, N<br>4. Generator's Phone (818 765   | ACE-ELECTRODYNA<br>. HOLLYWOOD, CA                             | MICS DIVISION   |  | B. State C   | Manifest Docum<br>884<br>Generator's ID                  | 57009  |
| 5. Transporter 1 Company Name  | . 6.   | US EPA ID Number  |  | No. of Street, | ransporter's ID  | 907068   |
| DISPOSAL CONTROL SER   | VICE CIA   | T 10 8 10 10 13 1   |  | 1000 N. W. W. W.   | orter's Phone  | (800) 824-3345   |
| 7. Transporter 2 Company Name  | 8.   | US EPA ID Number  |  | A THE STATE OF THE | ransporter's ID<br>orter's Phone                         |  |
| 9. Designated Facility Name and Site Add   | iress 10.  | US EPA ID Number  |  |  | acility's ID.  | ang ngapatan i <sup>ng p</sup> a <b>ng</b> a                             |
| CHEMICAL WASTE MANAG   | EMENT  |   |  |  | AITIOIO  | 0 6 4 6 11 11 17   |
| KETTLENAN CITY, CA 9   |  | T 0 0 0 6 4   | 6 1 1 7                                      | (209   | 386-9  | 711  |
| 11. US DOT Description (Including Proper   |  |   | 12. Cont                                     |  | 13. Total<br>Quantity                                    | 14.<br>Unit<br>Wt/Vol Waste No.  |
| RQ, HAZARDOUS WASTE S  | OLID.N.O.S.,ORM  | -E,NA9189   | 4.2  |  |  | State 181<br>EPA/Other   |
| (D006,D007,D008)(EPA   | TOXICITY)(CHROM  | E CAKES)  | 0 0 8  | DFO  | poor   | Y D005 D007  |
| <b>-</b>   |  |   |  |  |  | EPA/Other  |
| C.   |  |   |  |  | <u> </u>   | State  |
|  |  |   |  | 1  |  | EPA/Other  |
| <b>d</b> .   |  |   |  |  |  | State  |
|  |  |   |  |  | 1 1 1 1  | EPA/Other  |
| J. Additional Descriptions for Materials Li  | sted Above   |   |  | K. Handli<br>a.  | ing Codes for V  | Vastes Listed Above  |
| PROFILE LAX 624718   | 1 . 4 . 9  | . 12  |  | Te 44.33   |  | Street of State Chi  |
| CHROME CÁCES FROM CHR  | OME REDUCTION  | ces "   |  | C.   | A 19 11 12   | d.   |
| 15. Special Handling Instructions and Add  | litional Information   |   |  | (2   | ¥5551  | 1200   |
| WEAR APPROPRIATE PERS  | ONAL PROTECTIVE  | EQUIPMENT   |  | Co   | -030   | (~ 7-)   |
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| generation and select the best waste<br>Printed/Typed Name   | management method that is                                      | available to me and that  | I can afford.                                |  | good julii ciii  | Month Day  |
| MARY MCLAU   | GHLIN  | 1 . Than  | In La  | whi  |  | OBOIX  |
| 17. Transporter 1 Acknowledgement of R   | eceipt of Materials  |   |  |  | , ,,,  |  |
| Print / Typed Name  18. Transporter 2 Acknowledgement of R   | Alst Ni  | Signature   | al B   | la   | All -  | Month Day  |
| Printed/Typed Name   | occipi or materials  | Signature   |  | •  |  | Month Day  |
| 19. Discrepancy Indication Space   |  |   |  |  |  |  |
|  |  |   |  |  |  |  |
|  |  |   |  |  |  | *  |
| 20. Facility Owner or Operator Certificati   | on of receipt of hazardous m                                   | aterials covered by this n  | nanifest excep                               | t as noted i   | n Item 19.   |  |
| Printed/Typed Name   |  | Signature   |  |  |  | Month Day  |
|  |  |   |  |  |  |  |

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IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/88) EPA 8700—22 (Rev. 9-88) Previous editions are obsolete.

State of California-Health and Welfare Agency

Department of Health Services

| b.  G. State  EPA  J. Additional Descriptions for Materials Listed Above  PROFILE LAX J38900  SOIL CONTAMINATED WITH MOTOR OIL FROM SITE CLEAN UP  15. Special Handling instructions and Additional Information  WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipp and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable interna national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the danger which me present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize a generation and select the best waste management method that is available to me and that I can afford.  Printed/Typed Name  MARY MCLAUSHLIN  17. Transporter 1 Acknowledgement of Receipt of Materials  Signature  Month  Mary Jacknowledgement of Receipt of Materials  With Advanced States  Month  Mary Jacknowledgement of Receipt of Materials  With Advanced States  Month  Mary Jacknowledgement of Receipt of Materials  With Advanced States  Month  Mary Jacknowledgement of Receipt of Materials  | SOM OTHER TOTAL PRINCES  | or's US EPA 10 No.  | Manifest  | 2. F  |  |              | the shade  |
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| ALLIED SIGNAL & AEROSPACE-ELECTROPYNAMICS DIVISION 11600 SHERMAN NAY, N. HOLLYMOOD, CA 91605  5. Transporter Longuiny Name and Ste Associated and the Company Name (1900) 15. Transporter Longuiny Name and Ste Address 10. US EPA ID Number 15. Designated Facility Name and Site Address 10. US EPA ID Number 17. Transporter's Proceeding Name and Site Address 10. US EPA ID Number 18. Containers 19. Designated Facility Name and Site Address 10. US EPA ID Number 19. Containers 19. Separated Facility Name and Site Address 10. US EPA ID Number 11. Sortiners 12. Containers 13. Transporter's Proceeding Name (1900) 13. Transporter's Proceeding Name (1900) 14. Additional Description (Incideding Proper Shipping Name, Hezard Class, and IO Number) 15. Special Handling Proper Shipping Name, Hezard Class, and IO Number 16. Special Handling Instructions and Additional Information 17. Transporter Proceeding Name (1900) 18. Special Handling Instructions and Additional Information 18. Special Handling Instructions and Additional Information 19. Special Handling Instructions and Additional Information 19. Special Handling Instructions and Additional Information 19. Special Handling Instructions and Additional Information 19. Special Handling Instructions and Additional Information 19. Special Handling Instructions and Additional Information 19. Special Handling Instructions and Additional Information 19. Special Handling Instructions and Additional Information 19. Special Handling Instructions and Additional Information 19. Special Handling Instructions and Additional Information 19. Special Handling Instructions and Additional Information 19. Special Handling Instructions and Additional Information 19. Special Handling Instructions and Additional Information 19. Special Handling Instructions and Additional Information Instruction and Special Instruction and Special Instruction Instruction Instruction Instruction Instruction Instruction Instruction Instruction Instruction Instruction Instruction Instruction Instruction Instruction Inst |  | 0 0 8 3 2 5 3 3 4 8   | 9 10 11 19  | A. Sta  |  |              |  |
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| 6. Transporter I Company Name DISDOSA CONTROL ERRYICE 8. US EPA ID Number DISDOSA CONTROL ERRYICE 9. Designated Facility Name and Site Address 10. US EPA ID Number CHEMICAL WASTE MANAGEMENT 38251 DLD SKYLINE ROAD KETTLEMAN CITY, CA 93239 11. US DOT Description (including Proper Shipping Name, Hazard Class, and 10 Number) 12. Containers 13. Total 14. Containers 15. State transporters 16. Total 16. Total 17. Total 18. Containers 18. Contai | 11600 SHERMAN NAY, N. HOLLYW   | 00D, CA 91605   |   | B. Sta  | te Generator's ID  |              | 1.279  |
| 7. Managorier's Company Name  8. US EPA ID Number  9. Designated Facility Name and Site Address  10. US EPA ID Number  CHEMICAL MASTE NAMASENERY 38251 OLD SKYLINE ROAD  KETHERAN CITY, CA 93229  11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)  12. Containers  13. Total Unit  Write  14. Modification of Containers  15. Total Unit  No. Type  CONTAMINATED SOIL)  D. Additional Descriptions for Materials Listed Above  PROFILE LAX J38900  SOIL CONTAMINATED WITH NOTOR OIL FROM SITE CLEAN UP  15. Special Handling instructions and Additional Information  MEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper ahope and are classified, pracked, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable eleteration and power and procedure procedures are described above by proper and in the contents of this consignment are fully and accurately described above by proper and in the contents of the contents of this consignment are fully and accurately described above by proper and inclinal government of practices and that have a second procedure of the colours and social of sweets generated of the degree have.  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper and inclinal government procedure and the contents of the colours and social of sweets generated to the degree have.  16. Special Handling Code to Waster and the environment, CR, II I am a small quantity generator, have made a good faith effort to minimize a group of the colours and procedure and special contents and special procedure and special contents and special procedure and special procedure. The procedure and special procedure and special contents and special procedure and special procedure. The procedure and special procedure and special procedure and special p |  |   |   | C. Sta  | te Transporter's   | 5 3,         | 029  |
| D. Designated Facility Name and Site Address  CHEMICAL MASTE MANAGEMENT 38251 OLD SKYLINE ROAD KETT EMAN CITY, CA 93229  11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)  12. Contrainery No. Type  13. Total Outliny Will / Village CONTAMINATED SOIL)  D. RAZARDOUS MASTE SOLID, N.O.S., ORNE, NA 9189  CONTAMINATED SOIL)  D. Siste Facility Signature  RAZARDOUS MASTE SOLID, N.O.S., ORNE, NA 9189  CONTAMINATED SOIL)  D. Siste Facility  CONTAMINATED SOIL  D. Siste Facility  K. Handling Codes for Wester Listed Above  PROFILE LAX 338900 SOIL CONTAMINATED WITH MOTOR SIL FROM SITE CLEAN UP  CONTAMINATED WITH MOTOR SIL FROM SITE CLEAN UP  CONTAMINATED WITH MOTOR SIL FROM SITE CLEAN UP  CONTAMINATED WITH MOTOR SIL FROM SITE CLEAN UP  15. Special Handling Instructions and Additional Information  WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT  16.  CONTAMINATED WITH MOTOR SIL FROM SITE CLEAN UP  CONTAMINATED WITH MOTOR SIL FROM SITE WITH MOTOR SIL FROM SIL | DISPOSAL CONTROL SERVICE   | - OATO 003  | 418   | W1071100                                      | English State Control  | (80          | 0) 82  |
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| 38.251 OLD SKYLINE ROAD  ETILEMAN CITY CA 93223  11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)  12. Container  No. Type  13. Total  Unit Unit Unit Unit Unit Unit Unit Uni  |  | 10. US EPA ID Number  |   | G. Sta  | 3 10 10 10 10  |              |  |
| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)  RQ, HAZARDOUS WASTE SOLID, N.O.S., ORNE, NA 9189 (CONTAMINATED SOIL)  D. State (CONTAMINATED SOIL)  D. Additional Descriptions for Materials Listed Above  PROFILE LAX JS8900 SOIL CONTAMINATED WITH NOTOR OIL FROM SITE CLEAN UP  15. Special Handling Instructions and Additional information  WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipp and are classified, packed, marked, and labelied, and are in all respects in proper condition for transport by highway according to applicable internal contents of this consignment are fully and accurately described above by proper shipp and are classified, packed, marked, and labelied, and are in all respects in proper condition for transport by highway according to applicable internal contents of this consignment are fully and accurately described above by proper shipp and are classified, packed, marked, and labelied, and are in all respects in proper condition for transport by highway according to applicable internal contents of this consignment are fully and accurately described above by proper shipp and are classified, packed, marked, and labelied, and are in all respects in proper condition for transport by highway according to applicable internal national government regulations.  11 am a large quantity generator, I certify that I have a program inspect in a validable to make a good faith effort to minimize a present and future them to human health and the environment (OR, if an an amality quantity generator, I have made a good faith effort to minimize a present and future throat to human health and the environment (OR, if an an amality quantity generator, I have made a good faith effort to minimize a present and future throat to human health and the environment (OR, if an an amality quantity generator, I have made a good faith effort to minimize a p | 35251 OLD SKYLINE ROAD   |   | [4] [4] [4  | H. Fac  |  | 心思           | 61   |
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Department of Health Services

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| 3. Generator's Name and Mailing Address ALLIED SIGNAL AEROSPACE CO. ELECTROD 11600 SHERMAN WAY, N. HOLLYWOOD, CA   | YNAMICS DIVISIO  |  | A. Sta   | te Manifest Document 884 te Generator's ID   |  |  |
| 4. Generator's Phone (318) 765-1010  5. Transporter 1 Company Name 6.  | US EPA ID Number   |  | -  | A H Q 3 (  | 5 0 0                                    | 9 0 9  |
| DISPOSAL CONTROL SERVICE 16 A 7. Transporter 2 Company Name 8.   | US EPA ID Number   | 1 8 4  | E. Sta   | nsporter's Phone<br>le Transporter's I   | (71                                      | 4) 983-<br>752MB   |
| 9. Designated Facility Name and Site Address 10.   | US EPA ID Number   |  | P. 1. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.           | nsporter's Phone<br>te Facility's ID   |  |  |
| CHEMICAL WASTE MANAGEMENT<br>35251 OLD SKYLINE ROAD<br>KETTLEMAN CITY, CA 93239  | T 0 0 0 6 4 6  | 1, 1, 7  | H. Fac   | ility's Phone  | 0 0 6<br>-9711                           | 4 6 1  |
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| 15. Special Handling Instructions and Additional Information  WEAR APPROPRIATE PERSONAL PROTECTIVE  EXTREMELY HAZARDOUS WASTE DISPOSAL P   | EQUIPMENT  | Prof   | - 6  | #-   | 56                                       | 6411   |
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Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

|  | 3. Generator's Name and Mailing Address  ALLIED SIGNAL AEROSPACE CO. ELECTRODY   |  | 2.5000                                      | 884  | 57002  |
|--|--|--|---|--|--|
|  | 11600 SHERMAN WAY, N. HOLLYWOOD, CA 9  | 1605   | B. Sta                                      | e Generator's ID   | and the second second second second second                                   |
|  | 5. Transporter 1 Company Name 6.  7. Transporter 2 Company Name 8.   | US EPA ID Number                                       | 9 0 3 D. Tran                               | e Transporter's II<br>asporter's Phone<br>e Transporter's III    | (818) 334-5  |
|  | 9. Designated Facility Name and Site Address 10.   | US EPA ID Number                                       | 1,25,730,75                                 | esporter's Phone<br>te Facility's ID                             |  |
|  | OIL & SOLVENT PROCESS CO<br>1704 W. FIRST STREET<br>AZUSA, CA 91702   C. A.  | 000830   | H. Fac                                      | G.A.d. 0 (   | 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9  |
|  | 11. US DOT Description (Including Proper Shipping Name, Hazard Class,  |  | 12. Containers No. Type                     | 13. Total<br>Quantity  | 14. I.<br>Unit Waste<br>Wt/Vol   |
| GEN                                    | RQ, WASTE FLAMMABLE LIQUID, N.O.S., UI<br>(NASTE RED OIL & HEPTANE)  | 1993 (DOO1)  | 00201                                       | 9919   | State 214<br>EPA/Other   |
| E R A T O R                            | RQ, WASTE HEPTANE, FLAMMABLE LIQUID, UI  | (1206 (d001)   | 99298                                       | 00100  | EPA/Other  |
| i                                      | WASTE FLAMMABLE LIQUID, N.O.S., UN 19<br>(WASTE PAINT AND THINNERS)  | 93(F003)   | MEKDD                                       | 00090  | EPA/Other  |
|  | RQ, WASTE 1,1,1 TRICHLOROETHAME, ORM-  | A,UN2831(F00   |   |  | EPA/Other  |
|  | 15. Special Handling Instructions and Additional Information   | nners<br>Toroethane                                    | c.  | 01   | 01   |
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|  | Printed/Typed Name   | Signature  | 10 =  |  | Month Da   |
| \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | M. McLaugh 1 sn 17. Transporter 1 Acknowledgement of Receipt of Materials  | 1. 1.7.  | 1   |  |  |
| RANSPO                                 | 17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials   | Signature  | Guen  | ere  | Month Day  |
| R A N S P                              | 17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name   | Signature  | Suem  | ere  | Month Day  Month Day   |
| RANSPORT                               | 17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials   | <u> </u>   | Suem  | ere  | MP1 11.  |

| 3. Generator's Name and Mailing Address  | 0 0 8 32 5 3 3 4 0   | 10 10 11 15   | 4-  |  | valore in  | by Fede  |
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| ATTTO OTOTAL SAMESTER AND  | Advances and the second |   | A. Stat   | e Manifest Documents 883   | ent Nun  | mber 1   |
| ALLIED-SICHAL AARROSPACE COMI<br>11600 SERRMAN WAY, W. HOLLYWO   | ANT, ELECTRODYMANICS   | DIV.  | B. Stat   | e Generator's ID   | 700  | GL   |
| 4. Generator's Phone ( )   | on of Mico?  |   |   | ch to be   | 10 10  | la la 1  |
| 5. Transporter 1 Company Name  | 6. US EPA ID Numb  | er  |   | e Transporter's ID   | 1  | 770  |
| DISPOSAL CONTROL SERVICE   | E A T O S O O S  | 18 11 14  | A CAMPA TONGTO  | sporter's Phone  | 800  | 824  |
| 7: Transporter 2 Company Name  | 8. US EPA ID Numb  | er  | Section Control of the Control                        | e Transporter's IO   |  |  |
| Designated Facility Name and Site Address  | 10. US EPA ID Numb   |   | -730000000000   | sporter's Phone  |  | SPE IN   |
| - <del>-</del>   | TO. US EFA ID NUMB   | <del>er</del>   | G. Stat   | e Facility's ID  |  |  |
| DEMERBIO KERDOON<br>2100 W. ALAMEDA ST   |  |   | H. Fac  | lity's Pflone  | 00   | 13   |
| COMPTON, CA 90222  | * * * * * * * * * * * *  |   | W- 35   | 213 5  | 37   | 700  |
| •  |  | 12 Con  | tainers   | 13. Total  | 14.  |  |
| 11. US DOT Description (Including Proper Shipping Nam  | ne, Hazard Class, and ID Number)   | No.   | Туре  | Quantity   | Unit<br>Wt/Vo                                    |  |
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| WASTE PETROLEYUN OIL N.O.S.,<br>UN 1270  | COMMUNITALE LIQUID   |   |   |  |  | EPA/O  |
| b.   | ( - <b>/</b>   | BPL   | FF  | 70000  | 6  | 1  |
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| WASTE SOLUBLE OIL 22<br>LUBRICATING OIL 201  | 7. A.F   |   |   | 01   |  |  |
|  | y V. A.  | į   | C.  | 01   | d.   |  |
| LUBRICATING OIL 20%<br>RYDRAULIC OIL 60%<br>WATER 20%  | g 2. a.a. 1  | <u>6</u> ~  | с.  | 01   | d.   |  |
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| EUBRICATING OXL 203  NYDRAULIC OIL, 602  WARTER  15. Special Handling Instructions and Additional Information  |  | į   | <b>c</b> .  | 01   | d.   |  |
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Do Not Write Below This Line EPA 8700—22 (Rev. 9-88) Previous editions are obsolete.

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| WASIE  | INALAIDUUU   | Generator's US EPA ID No.  | Manifest<br>Document No.  | 2.                               | Page 1 Informs   | ation in t            | Sacrame<br>the shaded s  |
|--|--|--|---|----------------------------------|--|-----------------------|--|
| 3. Generator's Nam   | ne and Mailing Address   |  | eltiolaio   |                                  | of is not a  |                       | by Federal I   |
| 11000 2HE  | IGHAL AEROSPACE (<br>ERHMAN WAY, N. HO<br>818 765-1010   | CO., ELECTRODYNAMICS DE<br>DLLYWOOD, CA 91606  | IV.   | B. Sta                           | 883<br>ate Generator's ID                                      | 300                   | 208  |
| 5. Transporter 1 Co  | ompany Name  | 6. US EPA ID Nur   | 1   | 78 S (2005)                      | A H O 3 6  | 010                   | lg lg lg l   |
| 7. Transporter 2 Co  | CONTROL SERVICE  | 6. US EPA ID Nun   |   | E. Sta                           | insporter's Phone<br>ite Transporter's ID<br>insporter's Phone | 590                   | 粉剂   |
|  | lity Name and Site Address   | 10. US EPA ID Nun  | nber  |                                  | ite Facility's ID  |                       |  |
| DEMMENO K<br>2100 N. A   | ALAMEDA ST. COMPT  | ron, ca 90222<br>C A T o 6 10 10 11  | L 13 13 15 12   | H. Fa                            | 213 537  | 7100                  | 19 3 <br>  |
| 11. US DOT Descrip   | ption (Including Proper Shipping   | Name, Hazard Class, and ID Number)   | 12. Con   | tainers                          | 13. Total<br>Quantity  | 14.<br>Unit<br>Wt/Vol | Was  |
| " HAZARDOUS  | WASTE LIQUID, N  | 1.0.5., ORM-E  |   | 1                                |  | VII./ VO              | State 22   |
| , NA 9189  | •  |  | 00 11   | TIT                              | 03000  | G                     | EPA/Other  |
| b.   |  |  |   | 1                                |  |                       | State  |
|  |  |  |   |                                  |  |                       | EPA/Other  |
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| d.   | to the state of th |  |   |                                  |  |                       | State -  |
|  | ptions for Materials Listed Abov   | •  |   |                                  | 1.1.1.1  |                       | EPA/Other  |
| LUBRICATI  |  | R PROFILE  |   | С.                               | 01   | d.                    |  |
| WATER  |  |  |   |                                  |  |                       |  |
|  | g Instructions and Additional Info   | ormation   |   |                                  |  |                       |  |
| 15. Special Handling   |  | PROTECTIVE EQUIPMENT   | `   |                                  |  |                       | •  |
| 15. Special Handling USE APPROI  | PRIATE PERSONAL I  | PROTECTIVE EQUIPMENT   | nt are fully and ac   | curately                         | described above b  | y prope               | r shipping n   |
| 15. Special Handling USE APPROL  16.  GENERATOR'S and are classific national governn If I am a large qu to be economica present and futu   | PRIATE PERSONAL I  CERTIFICATION: I hereby de ied, packed, marked, and labele ment regulations.  quantity generator, I certify that i ally practicable and that I have ure threat to human health and  |  | ion for transport to<br>plume and toxicity<br>nent, storage, or d<br>lity generator. I ha | oy highw<br>y of wast            | ay according to ap   | degree                | I have dete  |
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20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

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Month

1-800-852-7550

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL

Department of Health Services Toxic Substances Control Division Sacramento, California

| UNIFORM HAZARDOUS WASTE MANIFEST  1. Generator's US EPA 10 No.  C A D 0 0 8 3 2 5  | Manifest  |   | Page 1 Informa  |                               |  |
|--|---|---|---|-------------------------------|--|
|  | 3 3 4 0 0 0 0 0   | 6   | MHOME   |                               | he shaded areas<br>by Federal law.   |
| ALLTED-STGAAL AEROSPACE CO., ELECTRODYNAM  | ICS DIVISION  |   | ate Manifest Docum  | 302                           | 127  |
| NORTH HOLLYWOOD, CA 91605 (818) 765-1010   |   | 1-153                                       | ALHIOB 6  | LòLo                          | 1 9 0 9 7  |
| 5. Transporter 1 Company Name 6. US  | EPA ID Number   | C. Sta                                      | ate Transporter's IC  |                               | 1090   |
|  | 8 0 0 3 4 1 8 4<br>EPA ID Number  | 4   | ansporter's Phone   | 719.                          | 483-0342   |
|  |   | 1300778-0                                   | insporter's Phone   | 0.00                          | All San Bear   |
| The state of the s | EPA ID Number   | G. St                                       | ate Facility's ID   | 100                           |  |
| DENMENO KERDOON<br>2100 N. ALAMEDA ST COMPTON, CA 90222  |   | H. Fa                                       | C   A   T   O   8<br>cility's Phone<br>13)537-710   | 303233                        | 1 1 3 3 5 2  |
|  |   | ntainers                                    | 13. Total   | 14.                           | L  |
| 1. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID  | Number) No.   | Туре  | Quantity  | Unit<br>Wt/Vol                | Waste No.  |
| HAZARDOUS WASTE LIQUID, N.O.S., ORM-E, NA  | 0100  |   |   |                               | State<br>221   |
| in manage minister and party in the party of | 0.01  | T.Y   | 0,2,5,90  | a                             | EPA/Other  |
| b.   |   | 111   | 0 2 3 - 1 -   |                               | State  |
|  |   | 1   |   |                               | EPA/Other  |
| <u> </u>   |   |   |   |                               | State  |
| •  |   |   | 1   |                               |  |
|  |   | 1.  |   |                               | EPA/Other  |
| d.   |   | 1   |   |                               | State  |
|  | 1   |   |   |                               | EPA/Other  |
| J. Additional Descriptions for Materials Listed Above  | - 45,5,6,6,5,5  | K He  | Indling Codes for W   | astes L                       | ated Above   |
| WATER SOLUBLE OILS LUBRICATING OILS  |   | c.  | 01  | b.                            | **************************************   |
| WATER PER PROFILE  | V 34 18 10 11 11 11 11 11 11 11 11 11 11 11 11  | N 11  |   |                               |  |
| 15. Special Handling Instructions and Additional Information   |   |   |   |                               | -  |
| USE APPROPRIATE PERSONAL PROTECTIVE EQUIP  | HENT  |   |   |                               |  |
| GENERATOR'S CERTIFICATION: I hereby declare that the contents of this and are classified, packed, marked, and labeled, and are in all respects in plactional government regulations.  If I am a large quantity generator, I certify that I have a program in place to to be economically practicable and that I have selected the practicable met  | s consignment are fully and a<br>proper condition for transport<br>reduce the volume and toxic<br>hod of treatment, storage, or<br>a small quantity generator, I  | by highw<br>ity of was<br>r disposal        | vay according to ap<br>ite generated to the<br>currently available                          | plicable<br>degree<br>to me v | international and I have determined thich minimizes the  |
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| int or type. (Form designed for use on elite (**-pitch typewriter).  | 4  |  |  |                                  | Sacramento, Califor   |
|--|--|--|--|----------------------------------|---|
| WASTE MANIFEST CIALDIOIS 325354 62   | Manifest   | 2. [   |  |                                  | the shaded areas<br>i by Federal law.                       |
| Allied Signal Electrodynamic   | -1-4   | A. Sta                                       | te Manifest Docu   | 302                              | 2125  |
| Generator's Phone (18) 165-1010 41605  | •  | #  | A H A J  | 100                              | 9097  |
| Transporter 1 Company Name  6. US EPA ID Number  SPOSRLCON+NILSERVICE (47 0) 000 4  Transporter 2 Company Name  8. US EPA ID Number  | 184  | D. Tre                                       | ate Transporter's<br>insporter's Phone   | 800                              | 8793343   |
|  |  | F. Tra                                       | nsporter's Phone   | U 7.                             | 10 193  |
| Designated Facility Name and Site Address  10. US EPA ID Number  10. PA ID Number  10. US EPA ID Number  10. PA ID Numbe |  | ("   | SOO  | 1,45                             | 1457  |
| . US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)   | 12. Con  | lainers                                      | t3. Total  | 14.                              | 1   |
|  | No.  | Туре   | Quantity   | Unit<br>Wt/Vo                    | Waste No.   |
| RQ WOSTE FlammaBle Liquid, nos<br>UN 1993 (DUOI) (WOSTE LOINISH  | 0.01   | 0  | 0005   | G                                | EPAUDITIAL  |
| 11 0 0200 / 100011 0 01114311  | 0 101  | V 1111                                       | PIOP P 1   | 1 7                              | State   |
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|  |  |  | 1 1  |                                  | State   |
|  | 11   |  | 1 1 1 1  |                                  | EPA/Other   |
|  |  |  |  |                                  | State   |
| Additional Descriptions for Materials Listed Above   |  | الالا  | ndling Codes for   | Wasten                           | EPA/Other   |
| ) Profile 000269   |  | a.   | 01   | b.                               | Listed Aboys  |
| Waste VARINISH   |  | C.   | <u> </u>   | d.                               |   |
| . Special Handling Instructions and Additional Information   |  |  |  |                                  |   |
| GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition for national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, present and future threat to human health and the environment; OR, if I am a small quantity greeneration and select the best waste management method that is available to me and that I cented/Typed Name  Signature  Signature  | e fully and ac<br>or transport l<br>e and toxicity<br>storage, or<br>enerator, I h | curately<br>by highw<br>y of was<br>disposal | described above<br>ay according to a<br>te generated to the<br>currently available | pplicable<br>ne degre<br>e to me | e international and e I have determined which minimizes the |
| Transporter 1 Acknowledgement of Receipt of Materials  nted/Typed Name Signature   | A ·  |  |  |                                  | Month Day Year  |
| Transporter 2 Acknowledgement of Receipt of Materials  | Lazo   | rds  |  |                                  | 19(1/6)   |
| HOM Signature  Discrepancy Indication Space  | C  | S  | <del>L</del> k   | Σl                               | Month Day Year<br>102123387                                 |
| Facility Owner or Operator Certification of receipt of hazardous materials covered by this man   | nifest except  | as note                                      | d in Item 19   |                                  | Month Pay Year  |
| (88) Do Not Write Below This Line  |  | χU   | Buch   |                                  | PERDIAN   |
| DO INC. WHILE DOLOW THIS LIFE  | Yellow.  | TSDF S                                       | ends this cop  | / TO GE                          | NERATOR WITHIN 30   |

TRANSPORTER

B &3UZLZS
IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7650

18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Month Day Year FRED MELILLO/ROONEY WEEM 19. Discrepancy Indication Space I : UNLY 20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

(1/88)

CALIFORNIA

Do Not Write Below This line revious editions are obsolete.

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

|   | anifest<br>imetho.  |  |  |   | he shaded:areas<br>by Federal law.   |  |
|---|---|--|--|---|--|--|
| ALLIED SIGNAL AEROSPACE, ELECTRODYNAMICS 11600 SHERMAN WAY, H. HOLLYWOOD GA 91606   | DIV   | A. Sta   | te Manifest Docum<br>8814<br>te Generator's ID                 | 033   | 39 /   |  |
| 4. Generator's Phone ( 818 765-1010  6. Transporter 1 Company Name 6. US EPA ID Number  |   |  | te Transporter's II  |   | 01901917   |  |
| DISPOSAL CONTROL SERVICE  C  AT  OF  O  O5  4   | 18  |  |  |   |  |  |
| 7. Transporter 2 Company Name 8. US EPA ID Number   |   |  | te Transporter's II<br>nsporter's Phone                        | 91  | 0275   |  |
| 9. Designated Facility Name and Site Address 10. US EPA ID Number   |   | (b)+(5L)2+(5ly)1   | te Facility's ID   |   |  |  |
| 9. Designated Facility Name and Site Address 10. US EPA ID Number 2100 No. ALANEDA ST   |   |  | ility's Phone  |   | 11313512   |  |
| CONPTON, CA 90222  11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)   | 12. Cor   | tainers  | 13) 537-<br>13. Total<br>Quantity                              | 14.<br>Unit                                     | I.<br>Waste No.  |  |
|   | No.   | Туре   | Quantity   | Wt/Vol  |  |  |
| "AWASTE PETROLEYUM OIL N.O.S., COMBUSTIBLE<br>LIQUID UN 1270  | 01 01   | 747  | 1/6/010  | e   | 221<br>EPA/Othy/A  |  |
| <b>b</b> .  |   |  |  |   | State  |  |
| estine<br>To  |   |  | 1111   |   | EPA/Other  |  |
| c. **   |   |  |  |   | State  |  |
| ***************************************   |   |  | K.,  |   | EPA/Other  |  |
| d.  |   |  |  |   | State  |  |
|   |   |  |  |   | EPA/Other  |  |
| J. Additional Descriptions for Materials Listed Above   | Щ   | I Ha   | ndling Çodes for V   | Ventee 1  |  |  |
| WASTE SOLUBLE OIL 2%  |   |  | 7  | b.  | SIGG VOOLE   |  |
| HYDRAULIC OIL 60%   |   | c.   |  | d.  |  |  |
|   |   |  |  | 7-9-4 to  | A Company of the Company   |  |
| 15. Special Handling Instructions and Additional Information  | -   | 1  |  |   |  |  |
|   | PMENT   |  |  |   |  |  |
| 15. Special Handling Instructions and Additional Information  | fully and a<br>r transport<br>and toxics<br>storage, of<br>enerator, t  | ccurately<br>by highw<br>ty of was<br>disposal             | ay according to a<br>te generated to th<br>currently available | p <del>pli</del> cable<br>e degree<br>e to me v | international and I have determined which minimizes the                    |  |
| 15. Special Handling Instructions and Additional Information  USE APPROPRIATE PERSONAL PROTECTIVE EQUID  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition fo national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, it present and future threat to human health and the environment; OR, if I am a small quantity generator, I certify that I have selected the practicable method of treatment, it present and future threat to human health and the environment; OR, if I am a small quantity generator.  | fully and a<br>r transport<br>and toxics<br>storage, of<br>enerator, t  | ccurately<br>by highw<br>ty of was<br>disposal             | ay according to a<br>te generated to th<br>currently available | p <del>pli</del> cable<br>e degree<br>e to me v | the I have determined which minimizes the nimize my waste                  |  |
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20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name

OBYORUE

signature by refe

Do Not Write Below This Line

1689 1689

CENTER

RESPONSE

| WASTE MANIFEST C  | enerator's US EPA ID No.   | Manifest           | 2. Page 1<br>of <b>2</b>                | 1                  | Sacramer<br>the shaded ar<br>d by Federal la |
|---|--|--------------------|---|--------------------|--|
| 3. Generator's Name and Mailing Address ALLIED-SIGNAL AEROSPACE ( 11600 SHERMAN WAY, NORTH 4. Generator's Phone (818) 765-1010  | COMPANY, ELECTRODYNAMIC<br>HOLLYWOOD CA 91605  | S DIV.             | A. State Manife<br>8<br>B. State Genera | 81403<br>itor's ID | 388  |
| 5. Transporter 1. Company Name DISPOSAL CONTROL SERVICE   | 6. US EPA ID Numb  | . 10               | C. State Transporter's                  | orter's IDG        | 0090   |
| 7. Transporter 2 Company Name   | 8. US EPA ID Numb  | өг                 | E. State Transp<br>F. Transporter's     | orter's ID         | 0)824-33                                     |
| 9. Designated Pacility Name and Site Address OIL AND SOLVENT PROCESS C  | 10. US EPA ID Numb   |                    | G. State Facility                       | r's ID             | 3 0 2 9                                      |
| 1704 W. First Street<br>Asuza, CA 91702   | C A D 0 0 8 3 0  |                    | H. Facility's Pho                       | )334-511           | and the second second                        |
| 11. US DOT Description (Including Proper Shipping   |  | 12. Contai         | ners 13. To                             |                    | Wast   |
| * RQ, WASTE FLAMMABLE LIQUI<br>UN 1993 (DOO1) (WASTE RED  | D N.O.S.<br>OIL & HEPTANE)   |                    | ZIM DIOI3                               |                    | State 21<br>EPA/Other                        |
| MASTE ORM-A N.O.S., ORM-A<br>NA 1693 (FOO1) (WASTE FRE  | ON)  |                    | O IM O IO IO                            |                    | State 741                                    |
| RQ, WASTE 1,1,1-TRICHLOROUUN 2831 (NF001)   |  |                    | IM 8 10 11                              |                    | State 741<br>EPA/Other F001                  |
| d. HAZARDOUS WASTE LIQUID N.( NA 9189 (FOO5) (WASTE SKYE  J. Additional Descriptions for Materials Listed Above   | DROL & WATER)  | 0 10 19 0          | M 0 0 14<br>K. Handling Coo             | is in .c           | State 221<br>EPA/Other<br>F005               |
| a) PROFILE LAX F28556 (was<br>693212 (was<br>c) 693094<br>d) F28554 (was<br>15. Special Handling Instructions and Additional Infor  | ite freon)<br>ite skydrol & water)   |                    | 01                                      | d.                 | 01   |
| USE APPROPRIATE PERSONAL P  | ROTECTIVE EQUIPMENT  |                    |   |                    | j  |
| 16.  GENERATOR'S CERTIFICATION: I hereby dec and are classified, packed, marked, and labeled national government regulations.  If I am a large quantity generator, I certify that I to be economically practicable and that I have so present and future threat to human health and the | have a program in place to reduce the volu   | me and toxicity of | highway accordi                         | ng to applicable   | e international a                            |
|   | ne environment; OH, it I am a small quantity ent method that is available to me and that |                    | made a good f                           | aith effort to mi  | nimize my wast  Month Da                     |
| Printed/Typed Name  | Signature  | 7                  |   |                    |  |
|   |  | (<br>              | · · · · · · · · · · · · · · · · · · ·   |                    |  |
| Printed/Typed Name ROBIN OSEAS  | laterials  Signature  Signature  | T.B.               | 111                                     | 16                 | Month Day                                    |
| Printed/Typed Name  ROB IN OSEAS  17. Transporter 1 Acknowledgement of Receipt of M.  Printed/Typed Name  ANA  ANA  ANA  ANA  ANA  ANA  ANA  A  | laterials  Signature  Signature  | S Bi               | 1.0                                     | 16 to              | ממוומ  |
| Printed/Typed Name  ROB IN OSEAS  17. Transporter 1 Acknowledgement of Receipt of M.  Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of M.  | Signature Signature Signature Signature  | Be                 | 11/18                                   | 16                 | ממוומ  |
| Printed/Typed Name  ROBIN OSEAS  17. Transporter 1 Acknowledgement of Receipt of M.  Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of M.  Printed/Typed Name  19. Discrepancy Indication Space   | Signature aterials Signature Signature   | anifest except as  | noted in Item 1                         | 9.                 | ממעום.                                       |

|         | (Form designed for use on e   | lite (1 -pitch) typewriter.          | .)                              |             |                    | Fo            | proved. OMB                                     |                         |                          |                 |
|---------|---|--------------------------------------|---------------------------------|-------------|--------------------|---------------|---|-------------------------|--------------------------|-----------------|
| P.      | UNIFORM HAZARDOUS WASTE MANIFEST  | 21. Generator's US I<br>CAD008325334 | 1                               | Docum       | nifest<br>nent No. | 22. Pa        | age Inform<br>areas<br>law.                     | istion in<br>is not req | the shad<br>uired by Fe  | ed<br>ederal    |
| -       | (Continuation Sheet) 23. Generator's Name ALLIED-SIGNAL AEROSPACE         |                                      |                                 | 0000<br>DIV | -                  |               | <br>e Manifest C<br>140388                      | ocument                 | Number                   |                 |
|         | 11600 SHERMAN WAY, NORTH<br>(818)765-1010                                 | HOLLYWOOD CA                         | 91605                           |             |                    | M. Sta<br>HAl | ite Generator<br>10360090                       | 97                      | a care                   |                 |
| L       | 24. Transporter _ /_ Company Name DISPOSAL CONTROL SERVICE                | s <u>l</u> C                         | JS EPA ID Number<br>A T 0 3 0 0 | 3 4         | 1 8 4              | O. Tra        | te Transporte<br>nsporter's Pl<br>te Transporte | one (8                  | 9 <i>070U</i><br>900)824 | -3345           |
|         | 26. Transporter Company Name  |                                      | JS EPA ID Number                |             |                    |               | nsporter's Pl                                   |                         |                          |                 |
| ı       |   |                                      |                                 |             |                    |               |   |                         | R.                       |                 |
|         | 28. US DOT Description (Including Proper S                                | hipping Name, Hazar                  | d Class, and ID Nu              | mber)       | 29. Conta          | Type          | 30.<br>Total<br>Quantity                        | 31.<br>Unit<br>WL/Val   | Waste ?                  | ¥o.             |
|         | 3.  |                                      |                                 |             |                    |               |   |                         |                          |                 |
| -       | <b>D</b> .  |                                      |                                 | Á           |                    |               |   |                         |                          |                 |
| -       | C.  |                                      |                                 |             |                    |               |   |                         |                          |                 |
|         |   |                                      |                                 |             |                    |               |   |                         |                          |                 |
|         | d.  |                                      |                                 |             |                    |               | Q   |                         |                          |                 |
| 1       |   | 0.0                                  |                                 |             |                    |               |   |                         |                          | 461             |
|         | <ul> <li>WASTE FLAMMABLE LIQUID N<br/>UN 1993 (F003) (waste pa</li> </ul> | .0.5.<br>int & sludge)               |                                 |             | 0 0 1              | D M           | 0005  | O G                     | FO                       |                 |
| -       | 1. RQ, WASTE HEPTANE FLAMMA<br>UN 1206 (DOO1)                             | BLE LIQUID                           |                                 |             | 0.0.1              | D M           | 0005  | O G                     | 1                        | 213<br>01       |
| -       | g.  |                                      |                                 |             |                    |               |   |                         |                          |                 |
|         | h.  |                                      |                                 |             | `                  |               |   | 1                       |                          |                 |
|         |   |                                      |                                 |             | L                  |               |   |                         | <del> </del>             |                 |
|         | i.  |                                      |                                 | 16          |                    |               |   |                         | <u> </u>                 |                 |
| ŀ       | S. Additional Descriptions for Materials Lis                              | sted Above                           |                                 |             |                    | T. Ha         | ndling Code:                                    | for Wast                | es Listed A              | pove            |
|         | e) PROFILE LAX F28563 (was  |                                      |                                 |             |                    |               | 01  |                         |                          |                 |
| 7       | 32. Special Handling Instructions and Add USE APPROPRIATE PERSONAL        | itional Information<br>PROTECTIVE E  | EQUIPMENT                       |             |                    |               |   |                         |                          |                 |
|         | 33. Transporter Acknowledgement   | of Receipt of Materials              | Signatura                       | ud)         | 18/                | 1             | 186   |                         | Month L                  | ate 789         |
| PORT    | 34. Transporter Acknowledgement .  Printed/Typed Name                     | of Receipt of Materials              | Signature                       |             |                    |               |   |                         |                          | ate<br>Day Year |
| FACILIT | 35. Discrepancy Indication Space  |                                      |                                 |             |                    |               |   |                         |                          |                 |

GEOTECHNICAL BORING LOG DATE\_\_4/13/87 & 4/14/87 Drill Hole No. W-1 SHEET 1 OF 16 PROJECT\_\_\_\_Bendix/North Hollywood PROJECT No. \_3831136-07 DRILLING Co. Harold Council Drilling TYPE OF RIG Direct Rotary 400# hydraulic push HOLE DIAMETER 8-3/4" DRIVE WEIGHT -DROP None IN. ELEVATION TOP OF HOLE 733.67' REF. OR DATUM \_\_Mean\_Sea\_Level\_ READING (PPM) GEOTECHNICAL DESCRIPTION PERFORMED EPA TEST METHOD BL( PID LOGGED BY \_\_\_\_\_ SAMPLED BY \_\_\_\_\_ ASPHALT: 6" thick

@ 0' - drilling with air SM A11 SAND: light brown to tan, slightly damp, cohesionless, samples are hy poorly-sorted, coarse- to very coarse-grained, some gravel to pebble-sized semi-angular frag-ments, abundant black organic flecks, no odor, draulic pushes looks clean (ALLUVIUM) @ 9.0' - sand sloughing into hole 10 @ 10.0' - no sample recovery 0 @ 11.0' - tan, very coarse-grained, semi-rounded pebbles and cobbles of granitics to 3" diameter, no odor @ 15.0' - main hydraulic line on drill rig broke, oil spilled on pavement; drill rate approx. 30'/hr., slowed down at 15' losing air in loose sand 20 @ 20.0' - no sample recovery; caving problem at 20'; end of drilling 4/13/87; need to use mud to keep hole open 4/14/87 - started drilling with mud, took 2 samples of Bendix tap water used in drilling mud - S-1 and S-2, widehed hole from 6" to  $8\ 3/4$ " @ 24.0' - a few pebbles

505A(11/77)

LEIGHTON & ASSUCIATIS

@ 30.0' - cobble zone

KE! NO Æ

REVIEWED BY:

041002

|                        | E4/            | 14/87<br>Bendix/  | Nonth Ho        | - Ilwood            | Drill              |           |                | W-1   |  |
|------------------------|----------------|-------------------|-----------------|---------------------|--------------------|-----------|----------------|---|--|
|                        |                | Co. Har           |                 |                     |                    |           |                |   | PROJECT No. 3831136-07  Type of Rig Direct Rotary  |
| HoL                    | E DIAM         | ETER              | 8-3/4"          |                     | Drive              | WEIGH     | T              | 400# hydraulic push   | DROP None IN.  |
|                        |                |                   |                 |                     |                    |           |                |   | 111.   |
| , <b>Дертн</b><br>Реет | GRAPH1C<br>Log | PID READING (PPM) | TUBE SAMPLE NO. | BLOWS<br>PER FOOT   | EPA TEST<br>METHOD | PERFORMED | Soll CLASS.    |   | CAL DESCRIPTION  JAC JAC   |
| 35 -                   |                | 0                 | 2               | push                |                    |           | SW             | diameter, well-segranitic parent masside of hole with f (ALLUVIUM)  @ 40.0' - tan, poor grained | cohesionless, gravel 0.1" in orted, little to no fines, terial (This may be slough from iner sand already settled out.)  Ty sorted, fine- to very-coarse, no odor (sample is slough: gravel - bottom 18" of hole |
| 50-                    |                | REVIEWE           | 3 B             | Push FRAN king O. 5 | C TOLOGO KIJ       |           | GM<br>SW<br>GM | pebbles<br>(slough a<br>COBBLES & BOULDERS: t<br>gravelly                                       |  |
| 60                     | _ E            | Ø                 | 1 1             | OF C                | FORM               | 1         | GM             | COBBLES & BOULDERS: as  | above, sandy matrix  |
|                        |                |                   |                 | -                   |                    |           | ******         |   |  |

LEIGHTON & ASSOCIATES

| DATE          |   | 487 & 4/1                              |                    | 3.3               | DRILL HOLE                      |             |   | PROJECT No. 3831136-07   |    |
|---------------|---|--|--------------------|-------------------|---------------------------------|-------------|---|--|----|
| PROJ          | ECT                                     | Bendix/                                | lorth Ho           | cil Dri           | lling                           |             |   | Type of Rig Direct Rotary  |    |
| URIL<br>Hore  | LING (                                  | 7ED 8                                  | 3/4"               |                   | DRIVE WEIGH                     | T           | 400# hydraulic push   | TYPE OF RIG Direct Rotary  DROP None   | m. |
| FLEV          | ATION                                   | TOP OF                                 | HOLE 7             | 33.67'            | REF. OR DAT                     | UM          | lean Sea Level  |  |    |
| Дертн<br>Feet | GRAPHIC<br>Log                          | PID READING<br>(PPM)                   | TUBE<br>SAMPLE NO. | BLOWS<br>PER FOOT | EPA TEST<br>METHOD<br>PERFORMED | Sort CLASS. | GEOTECHNICA   | L DESCRIPTION  |    |
| 65            | 8.00.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0. |  |                    |                   |                                 | SM          | GRAVELLY SAND: tan, cohe sorted, fine- to ver abundant granitic cobb @ 60.0' - no sample re rate slowed  @ 65.0' - tested mud w | with PID - no contamination  |    |
| 80            | X X X X X X X X X X X X X X X X X X X   | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | EWED BY            |                   | RING<br>FOLOGIST<br>PE CONFORM  | GM          | sand matrix, poor<br>grained<br>@ 80.0' - too hard<br>@ 82.0' - end of dr<br>4/15/87  | diameter, granitic, gravelly ly sorted, fine- to very coarse to sample illing 4/14/87 - resumed drilling, bottom 3' over night, drilled back down d tried to sample, no recovery |    |

|               |                         | 1 <mark>7.4/2</mark> 3/8<br>Bendix/ |                    |                   | JRILL 1            |         |             | PROJECT No3831136-07   |
|---------------|-------------------------|-------------------------------------|--------------------|-------------------|--------------------|---------|-------------|--|
| PROJ          | ECT                     | Co Har                              | old Cour           | ncil Dri          | lling              |         |             | TYPE OF RIG Direct Rotary  ### DROP None IN.   |
| URIL<br>Hore  | LING !                  | ETER See                            | Notes              |                   | RIVE 1             | NE I GH | T           | 400# hydraulic push DROP None IN.  |
| FLEV          | ATION                   | TOP OF                              | HOLE               | 733.67'           | REF. OI            | r Dat   | ·<br>·<br>· | ean Sea Level  |
| Дертн<br>Feet | б <u>к</u> арніс<br>Log | PID READING<br>(PPM)                | TUBE<br>SAMPLE NO. | BLOWS<br>PER FOOT | EPA TEST<br>METHOD |         | Solt CLASS. | GEOTECHNICAL DESCRIPTION  LOGGED BY  |
| 90            | .0.,                    |                                     |                    |                   |                    |         | SM          | SAND: tan, cohesionless, poorly sorted, fine- to very coarse-grained, no odor (ALLUVIUM)   |
| 95            |                         |                                     | 4                  |                   | ings               | OG ST   | SM GM       | GRAVEL: tan, cohesionless, pebbles, sandy matrix, poorly sorted, fine- to very coarse-grained, no odor  @ 95.0' - Tested mud sample in aluminum foil-covered glass jar using PID - no contamination detected  @ 105.0' - 10:50 A.M. 4/15/87 completed circulating 4/16/87 - Geophysically logged hole (Barbour) 4/17820/87 - Reamed hole to 17½" 4/21/87 - Installed conductor casing to 75' (stuck below that depth) and cemented entire hole with neat cement and 10% bentonite 4/22/87 - let cement set 4/23/87 - drilled out cement in casing and continued deepening hole with 12½" bit  @ 110.0' - bouncing of kelly indicates presence of cobbles, cuttings are coarse sand, gravel, and angular rock fragments to 0.1", no odor  @ 111.0' - very hard, very slow drilling (may be rolling cobbles, rock fragments have a few rounced edges)  @ 112.0' - checked mud with PID, no contamination measured  @ 113.0' - end of drilling 4/23/87 4/24/87 - resumed drilling |
| 120           |                         | REVI                                | EWED BY            |                   | INEERIN<br>OLOGIST | GRIL    |             |  |

LEIGHTON & ASSOCIATES
A - 4

| Pro.                | JECT           | Bendix/              |                    | llywood  |  |           |              | PROJECT No. 3831136-07   | -      |
|---------------------|----------------|----------------------|--------------------|--|--|-----------|--------------|--|--------|
|                     |                | Co Har               |                    |  |  |           |              | 400# hydraulic push  Type of Rig Direct Rotary  Drop None 111  | _      |
|                     |                | ETER                 |                    |  |  |           |              |  | i •    |
| FLE                 | VATION         | IOP OF               | HOLE _7            | 33.67'   | KEF. O   | R DAT     | UM           | lean Sea Level   | -<br>1 |
| ос<br>Дертн<br>Реет | GRAPHIC<br>Log | PID READING<br>(PPM) | TUBE<br>SAMPLE NO. | BLOWS<br>PER FOOT  | EPA TEST<br>METHOD   | PERFORMED | Soll, CLASS. | GEOTECHNICAL DESCRIPTION  LOGGED BY  |        |
| -                   | 0.0            | 0                    | 6                  | cuttir   | ngs  |           | SM           | GRAVELLY SAND: tan, cohesionless, poorly sorted, fine-<br>to coarse-grained sand and gravel, no odor, occasional<br>pebbles, primarily coarse-grained (ALLUVIUM)<br>@ 123.0' - cobbles and pebbles more abundant   |        |
| 125 —<br>-<br>-     | 0.0000         |                      |                    |  |  |           | GM           | SANDY GRAVEL: - tan, cohesionless, poorly sorted, fine- to very coarse-grained sand and gravel, gravel averages 0.3" in diameter, angular to subangular, granitic  0 128.0' - gravel, kelly bouncing steadily 0 129.0' - incomplete sample recovery, driller's sampler bent, sampling took 2‡ hrs. |        |
| 130-                | 000            | 0                    | 7                  | incom  | plete  |           | SM           | GRAVELLY SAND: tan, cohesionless, poorly sorted, very fine- to very coarse-grained sand with common gravel to 0.25" in diameter  |        |
| 135 -               |                |                      |                    |  |  |           |              |  |        |
| 140 -               | 0.00           | 0                    | 8                  | cutt   | ings   |           |              | 0 142.0' – as above, occasional cobbles<br>0 143.0' – very hard, approx. l' boulders   |        |
| 145                 | 0.00           | REVIEW               | IED BY:            | FINGE OF THE PROPERTY OF THE P | REG GEOT<br>RANK J.<br>E. J. J.<br>KI FILL<br>INTERNIO<br>OLOGIST<br>COLLEGE |           |              |  |        |

SOSA(11/77)

| DATE          | 4/24/          | 8 <b>7 % 4/</b> 27   | /87      |                            | DRILL   | HOLE      | No          | W-1  | SHEET 6 OF 16  |    |
|---------------|----------------|----------------------|----------|----------------------------|---|-----------|-------------|--|--|----|
|               |                | Bendix/              |          |                            |   | ·         |             |  | PROJECT No. 3831136-07                                     |    |
| DRIL          | LING           | Co. Har              | old Coun | icil Dri                   | illing  |           | *           | 400# hydraulic nuch  | TYPE OF RIG <u>Nirect Rotary</u> DROP <u>None</u>          |    |
| HOLE          | DIAM           | ETER ———             | <u> </u> |                            | DRIVE   | WEIGH     | IT          |  | DROP None  | ш. |
| ELE/          | ATION          | TOP OF               | HOLE _/  | 33.6/                      | KEF. C  | OR DAT    | 'UM         | Mean Sea Level   |  |    |
| Дертн<br>Fеет | GRAPHIC<br>LOG | PID READING<br>(PPM) | TUBE NO. | BLOWS<br>PER FOOT          | EPA TEST  | PERFORMED | Sort CLASS. |  | AL DESCRIPTION  JAC  |    |
| 155           |                |                      |          |                            |   |           | SM          | @ 155.0' - losing mud @ 158.0' - as above @ 159.0' - end of dri      | into the formation   |    |
| 165 —<br>-    | 0 0            |                      |          |                            |   |           | SM          | SAND: tan, cohesionless<br>coarse-grained, no<br>tamination detected | s, poorly sorted fine- to very odor, minor gravel, no con- |    |
| 170 -         |                |                      |          |                            |   |           |             | @ 170.0' - tested muc<br>with PID                                    | d - no contamination detected                              |    |
| 175           |                | REVIEWE              | D BY:    | THE REPORT OF THE STATE OF | ANK J<br>NION<br>EN 254<br>TIFSTA<br>NIEHINO<br>LOGIST<br>CALIFOR |           | SM          | GRAVELLY SAND: as above,   | , gravel to 1" in diameter                                 |    |

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GEOTECHNICAL BORING LOG DRILL HOLE No. W-1 SHEET \_ 7 OF \_ 16 4/27/87 DATE ·PROJECT Bendix/North Hollywood PROJECT No. \_\_3831136-07 DRILLING Co. Harold Council Drilling Type of Rig Direct Rotary DRIVE WEIGHT \_\_\_\_\_400# hydraulic push HOLE DIAMETER 12 1/4" DROP None III. ELEVATION TOP OF HOLE 733.67' REF. OR DATUM \_\_ Mean Sea Level READING (PPM) BLOWS PER FOOT GEOTECHNICAL DESCRIPTION PERFORMED EPA TEST METHOD D 10 LOGGED BY \_\_\_\_\_ SAMPLED BY \_\_\_ 180-GRAVELLY SAND: tan, cohesionless, poorly sorted, very fine- to very coarse-grained sand with common gravel to 0.25" in diameter (ALLUVIUM) 185 12 cuttings 0 @ 186.0' - sudden rough drilling, kelly bouncing @ 187.0' - smooth drilling again SAND: tan, cohesionless, poorly sorted, very fine- to coarse-grained, occasional pebbles to 0.4" 190-@ 193.0' - some reddish-brown, plastic clay in cuttings with sand 0 13 cuttinds 195 . CLAYEY SAND: sand as above but finer grained and with abundant clay, silty, moderately cohesive cuttings 14 0

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@ 201.0' - losing mud into formation, mud is

12'/hr.

@ 206.0' - as above

thickening, drilling rate approx.

200 -

205

15

EOLOGIST

0

REVIEWED BY

| PRO.          | IECT           | 4/27/87<br>Bendix/I  | North Ho           | 11ywood           |   |  |             | W-1 SHEET 8 OF 16 PROJECT No. 3831136-07  |       |
|---------------|----------------|----------------------|--------------------|-------------------|---|--|-------------|---|-------|
|               |                |                      |                    | 2.1 02.1          | ling  |  |             | TYPE OF RIG <u>Nirect Rotary</u> 400# hydraulic push  DROP None   |       |
| Hole          | DIAM           | ETER                 | 10,530             | [                 | RIVE<br>REC O   | WEIGH                                    | T           | 400# hydraulic push DROP None Mean Sea Level  | 111.  |
| tle\          | ATION          | 10P OF               | NOLE_/3            | 3.6/              | VEF. U  | K DAI                                    |             |   | $\Pi$ |
| Дертн<br>Реет | GRAPHIC<br>Log | PID READING<br>(PPM) | TUBE<br>SAMPLE NO. | BLOWS<br>PER FOOT | EPA TEST  | PERFORMED                                | Soll CLASS. | LOGGED BYJAC  |       |
| 210 -         |                |                      |                    |                   |   |  | SC          | CLAYEY SAND: tan, moderately cohesive, poorly sorted, very fine- to medium-grained, abundant clay, silty, occasional pebbles to 0.4" (ALLUVIUM) |       |
| 215           |                | 0                    | 16                 | cuttin            | gs  |  | SM          | SAND: tan, cohesionless, poorly sorted, very fine- to coarse-grained, subangular to subrounded  |       |
| 220           |                |                      |                    |                   |   |  | SC          | CLAYEY SAND: as above   |       |
| 225           |                | 0                    | 17                 | cutti             | ngs   |  |             | @ 224.0' - occasional gravel to 0.25" in diameter   |       |
| 230           |                | 0                    | 18                 | cutt              | ings  |  |             | @ 230.0' - as above   |       |
| 23            | 5              | 0                    | 19                 | 3,51              | RED GA<br>FRAUK<br>KANTON<br>KANTON<br>KANTON<br>KENTON | 000 ST A ST A ST A ST A ST A ST A ST A S |             | @ 234.0' - drilling rate approx. 20'/hr.  @ 237.0' - as above   |       |
| 24            | 10             | REVI                 | EWED BY:           | TEN CONTRACTOR    | MINIER<br>EOLOGI<br>DF CALIF                            | ING<br>ST<br>ORW                         |             |   | -     |

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| DATE            | 4/27           | /87 & 4/2            | 8/87               | ··                   | Drill                   | HOLE                | No          | W-1   | SHEET 9 OF 16  |            |
|-----------------|----------------|----------------------|--------------------|----------------------|-------------------------|---------------------|-------------|---|--|------------|
|                 |                | Bendix/              |                    |                      |                         |                     |             |   | PROJECT No. 3831136-07   |            |
| DRIL            | LING           | Co. Hard             | old Cour<br>2 174" | <u>icil Dri</u>      | lling<br>D              |                     | <del></del> | 400# hydraulic nush   | TYPE OF RIG <u>Direct Rotary</u> DROP <u>None</u> 1                        | ~ <u>~</u> |
| HOLE            | E DIAM         | ETER                 | 11                 |                      | DRIVE                   | WEIGH               | IT          |   | DROP1  | п.         |
| ELEV            | ATION          | IOP OF               | HOLE _             | 733.67'              | KEF.                    | OR DAT              | TUM         | 1ean Sea Level  |  |            |
| Дертн<br>Реет   | GRAPHIC<br>LOG | PID READINS<br>(PPM) | TUBE<br>SAMPLE NO. | BLOWS<br>PER FOOT    | EPA TEST                | METHOD<br>PERFORMED | Soll CLASS. |   | AL DESCRIPTION  JAC  |            |
| 240 -           |                |                      |                    |                      |                         |                     | SC          | very fine- to media   | ely cohesive, poorly sorted,<br>um-grained, silty, abundant                |            |
| 245             |                | 0                    | 20                 | cutting              | gs                      |                     |             | clay, minor gravel (A<br>@ 246.0' - as abov<br>medium- t<br>some clay | e, fewer fines, primarily<br>to coarse-grained sand with                   |            |
| 250             |                |                      |                    |                      |                         |                     |             | @ 249.0' - end of dr<br>4/28/87<br>approx. 60<br>@ 252.0' - clayier   | illing for 4/27/87<br>- began drilling; hole took<br>00 gallons of new mud |            |
| 255 —<br>-<br>- |                | 0                    | 21                 | cuttin               | 10.5                    |                     | CL          | SANDY CLAY: reddish-br<br>fine- to medium-grai                        | own to brown, plastic, with<br>ined sand and silt                          |            |
| 260             |                | 0                    | 22                 | cutti                | ngs                     |                     |             |   |  |            |
| 265 –           |                |                      |                    | THE                  | O COL                   |                     | SC          | CLAYEY SAND: as above<br>@ 261.0' - pebbles<br>@ 263.0' - very hard   | d  |            |
| 270_            |                | REVIEW               | ED BY              | KEN<br>WIGIN<br>GEOL | C 125<br>EURIU<br>OGIST |                     |             |   |  |            |

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| DATI          | = 4/           | 28/87                |                    |  | RILL Ho            | LE NO | )                          | W-1 SHEET 10 OF 16  |     |
|---------------|----------------|----------------------|--------------------|--|--------------------|-------|----------------------------|---|-----|
| Pro           | JECT           | Bendix/N             |                    |  |                    |       |                            | PROJECT No. 3831136-07  | -   |
| DRII          | LLING          | Co . Hard            | old Counc          | cil Dril   | ling               |       |                            | 400# hydraulic push  TYPE OF RIG Direct Rotary  DROP None IN  |     |
| Holi          | E DIAM         | ETER ——L             | 2 1/4"             | D  | RIVE WE            | THOL  |                            | 400# hydraulic push DROP None 111   | . • |
| ELE           | VATION         | TOP OF               | HOLE               | 33.67' R   | EF. OR             | DATU  | <u> </u>                   | Yean Sea Level  |     |
| Dертн<br>Feet | GRAPHIC<br>LOG | PID READINS<br>(PPM) | TUBE<br>SAMPLE NO. | BLOWS<br>PER FOOT  | EPA TEST<br>METHOD |       | Soll (LASS.)<br>(U.S.C.S.) | GEOTECHNICAL DESCRIPTION  LOGGED BY   |     |
| 275—          |                | O REVIE              | 23<br>24<br>25     | cutting cuttin cutting cutting cutting cutting cutting cutting cutting cutting | n s                |       | SC                         | CLAYEY SAND: tan, moderately cohesive, very fine- to coarse-grained, occasional pebbles to 0.4", subrounded, granitic, clayey, primarily fine-grained sand and silt, drilling mud saturated with fine sand (ALLUVIUM)  @ 270.0'- drilling mud saturated with fine sand  @ 278.0' - less clay  @ 291.0' - as above @ 292.0' - drilling rate 17'/hr. @ 293.0' - pebbles (a few) @ 294.0' - clayier  SANDY CLAY: reddish-brown to brown, plastic, with fine- to medium-grained sand, silty |     |
| 300           |                | 0                    | 26                 | <b>Euot</b>  | in sion            | 1     | CL                         | CLAY: brown to reddish-brown, plastic, very little fine sand  | 1   |

LEIGHTON & ASSOCIATES A - 10

#### GEOTECHNICAL BORING LOG

|               |                | 87 & 472<br>         |                    |                   |          | - HOLE              |             | W-1 SHEET 11 OF 10 PROJECT No. 3831136-07   |
|---------------|----------------|----------------------|--------------------|-------------------|----------|---------------------|-------------|---|
|               |                |                      |                    |                   |          |                     |             |   |
| HoL           | E DIAM         | ETER                 | 12 1/4"            |                   | Drivi    | E WEIGH             | T           | 400# hydraulic push DROP None IN  |
| ELE           | VATION         | TOP OF               | HOLE _             | 733.67            | REF.     | or Dat              | UM          | tean Sea Level  |
| Дертн<br>Fеет | GRAPHIC<br>LOG | PID READING<br>(PPM) | TUBE<br>SAMPLE NO. | BLOWS<br>PER FOOT | EPA TEST | METHOD<br>PERFORMED | SOIL CLASS. | GEOTECHNICAL DESCRIPTION  LOGGED BY   |
| 300           | 0              |                      |                    |                   |          |                     | CL          | CLAY: brown to reddish-brown, cohesive, plastic clay, with minor gravel and very fine-grained sand and silt (ALLUVIUM)                          |
|               |                |                      |                    |                   |          |                     | SC          | CLAYEY SAND: tan to brown, moderately cohesive, clayey, primarily very fine- to fine-grained with some coarse grained sand, silty, minor gravel |
| 305           |                | 0                    | 27                 | cuttin            | gs       |                     |             |   |
|               |                |                      |                    |                   |          |                     |             |   |
| 310-          |                |                      | ·                  |                   |          |                     |             | @ 309.0' - end of drilling for 4/28/87 4/29/87 - began drilling; mud level down 60 ft., no caving, thinned out mud to remove sand.              |
|               |                |                      |                    |                   |          |                     |             | @ 314.0' - minor gravel   |
| 315           |                |                      |                    |                   |          |                     |             | @ 318.0' - as above   |
|               |                | 0                    | 28                 | cutt              | ings     |                     |             |   |
| 320           |                |                      |                    |                   |          |                     |             |   |
|               | .0.            | , p                  |                    |                   |          |                     |             | @ 323.0' - minor gravel   |
| 325           |                | 0                    | 29                 | FR KE             | D is:    | 200                 |             | @ 326.0' - as above, less clay  |
|               |                | REVIE                | 4ED BY             | SEO.              | METATI   | HALL                |             |   |
| 330           |                | ::                   |                    | 1700              | CAVIF    |                     |             |   |

HTON & ASSOCIATES

GEUTECHNICAL BUKING LUG DATE\_\_4/29/87 SHEET 12 OF 16 DRILL HOLE No. \_\_\_\_\_\_W-1 · PROJECT Bendix/North Hollywood PROJECT No. 3831136-07 DRILLING Co. Harold Council Drilling TYPE OF RIG Direct Rotary HOLE DIAMETER 12 1/4" DRIVE WEIGHT 400# hydraulic push DROP None IN. ELEVATION TOP OF HOLE 733.67' REF. OR DATUM Mean Sea Level READING (PPM) GEOTECHNICAL DESCRIPTION TUBE SAMPLE N PERFORMED Дертн Feet EPA TEST METHOD P10 LOGGED BY JAC 330 CLAYEY SAND: tan to brown, moderately cohesive, SC clayey, very fine- to fine-grained sand with occasional coarse-grained sand, silty, minor gravel (ALLUVIUM) @ 331.0' - pebbles, drilling rate approx. 22'/hr., mud thickening, incorporating formation 335 30 cuttinhs 0 @ 336.0' - as above 340 @ 341.0' - pebbles @ 343.0' - relatively smooth drilling, but slower @ 344.0' - rocky (small pebbles) @ 346.0' - as above cuttings 0 31 350 @ 353.0' - rocky 355

GEOLOGIST

REVIEWED BY

@ 357.0' - as above

water

@ 358.0' - pebbles; haven't had to add any water

to the mud during drilling - formation

#### GEOTECHNICAL BORING LOG

| DATE                                 | 4/29           | 9/87<br>             | North Ho           |                   | RILL N               | OLE I     |              | W-1   | PROJECT  | No. 383                    | 1136-07              | -    |
|--------------------------------------|----------------|----------------------|--------------------|-------------------|----------------------|-----------|--------------|---|--|----------------------------|----------------------|------|
| DRILLING Co. Harold Council Drilling |                |                      |                    |                   |                      |           |              |   | Rig Dir  |                            |                      |      |
| Unir                                 | DIAM           | CTCD                 | 12 1/4"            | _ [               | RIVE W               | EIGH      |              |   |  |                            | None                 | 111. |
| ELEV                                 | ATION          | TOP OF               | HOLE _7            | 33.67'            | REF. OR              | DAT       | UM           | tean Sea Level  |  |                            |                      | 77   |
| Дертн<br>Fеет                        | GRAPHIC<br>LOG | PID READING<br>(PPM) | TUBE<br>SAMPLE NO. | BLOWS<br>PER FOOT | EPA TEST<br>METHOD   | PERFORMED | \$014 CLASS. | GEOTECHNICAL LOGGED BY  | JAC  |                            |                      |      |
| 365                                  |                | 0                    | 34                 | cutting           | S                    |           | SC           | CLAYEY SAND: tan to brow clayey, very fine-casionally coarse-gravel (ALLUVIUM)  @ 361.0' - small pebble  @ 366.0' - rocky  @ 368.0' - pebbles  SAND: tan, cohesionless, some medium- and cosilty, little to no gravely, little to no gravely. | n, modera to fine-gr ained, sil es  primarily farse-graine | tely condained santy, with | esive, id, oc- minor |      |
| 385                                  | - 0            | 0                    | 25                 | TE D CA           | OLC STRUBE           |           |              | @ 385.0' - as above   |  |                            |                      |      |
|                                      | 00             | REVI                 | EWED BY            | NO BEST           | 254<br>254<br>Wilder | }         |              | @ 386.0' - pebbles @ 387.0' - very hard @ 389.0' - Easier d   |  |                            |                      | -    |
| 3                                    | <sub>90</sub>  |                      |                    | E F CAL           |                      |           |              | e 389.U - Edsier U  | i i i i i i i i g  | y. U.R. 10 /               |                      |      |

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505A(11/77)

GEOTECHNICAL BORING LOG ·DATE 4/29/87 DRILL HOLE No. W-1 SHEET 14 OF 16 PROJECT Rendix/North Hollywood PROJECT No. 3831136-07 TYPE OF RIG Direct Rotary

DROP None III. DRILLING Co. Harold Council Drilling HOLE DIAMETER 12 1/4" DRIVE WEIGHT 400# hydraulic push ELEVATION TOP OF HOLE 733.67' REF. OR DATUM \_\_ thean Sea Level \_\_ PID READING (PPM) BLOWS PER FOOT GEOTECHNICAL DESCRIPTION EPA TEST METHOD PERFORMED LOGGED BY \_\_\_\_\_\_JAC SAMPLED BY \_\_\_\_\_ 390 SAND: tan, cohesionless, primarily fine-grained with some medium- and coarse-grained sand, slightly clayey, silty, little to no gravel (ALLUVIUM) 395° cuttings 36 @ 396.0' - as above 400 @ 401.0' - pebbles 405 410 @ 410.0' - drilling rate 20'/hr. cuttings 37 0 0 413.0' - sand is coarser, some very coarsegrained 415 -0 418.0' - a few pebbles

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#### GEOTECHNICAL BORING LOG

|                 |                | 787                  |            | ]  | RILL     | HOLE !    | No          | W-1   |              | 5_OF_16               |          |
|-----------------|----------------|----------------------|------------|--|----------|-----------|-------------|---|--------------|-----------------------|----------|
|                 |                | Bendix/N             |            |  |          |           |             |   |              | No. <u>3831136-07</u> |          |
| DRII            | LING (         | Co. Haro             | old Coun   | cii Dri  | lling    |           |             | 400# hydraulic push                           | TYPE OF      | Rig Direct Rote       |          |
| HOLE            | E DIAM         | Ton of               | 11/4"      | l  | JRIVE    | MEIGH.    | Τ           | 400# hydraulic push<br>Mean Sea Level         |              | DROP None             | <u> </u> |
| CLE             | VATION         | TOP OF               | HOLE _/    | 33.6/  | TEF. O   | R DAI     | UM          | rean Sea Level                                |              |                       |          |
| е Дертн<br>РЕЕТ | GRAPHIC<br>LOG | PID READING<br>(PPM) | SAMPLE NO. | BLOWS<br>PER FOOT  | EPA TEST | PERFORMED | Soil CLASS. | GEOTECHNICAL LOGGED BY                        |              | ION                   | -        |
| 420             |                | 0                    | 38         | cutting  | s        |           | SM          | SAND: tan, cohesionless, very coarse-grained, | poorly sorte | d, very fine- to      |          |
| 425 —           |                | 0                    |            | cutting  |          |           |             | very coarse-grained,                          |              |                       |          |
| 440 -           |                | O<br>REVIEWE<br>O    | 40         | Cutti<br>FRANK<br>KENTO<br>CAPA<br>CAPA<br>CAPA<br>CAPA<br>CAPA<br>CAPA<br>CAPA<br>CAP |          |           |             | @ 441.0' - as above                           |              |                       |          |

505A(11/77)

LEIGHTON 8 ASSOCIATES A - 15

GEOTECHNICAL BORING · LOG DRILL HOLE No. W-1 SHEET 16 OF 16 DATE 4/29/87 PROJECT Bendix/North Hollywood PROJECT No. 3831136-07 DRILLING Co. Harold Council Drilling TYPE OF RIG Direct Rotary DRIVE WEIGHT 400# hydraulic push DROP None IN. HOLE DIAMETER \_\_\_\_ ELEVATION TOP OF HOLE 736' REF. OR DATUM Mean Sea Level CLASS. TUBE SAMPLE NO. BLOWS PER FOOT GEOTECHNICAL DESCRIPTION EPA TEST METHOD PERFORMED PID SAND: tan, cohesionless, poorly sorted, very tine- to very coarse-grained, slightly clayey, silty (ALLUVIUM) REVIEWED BY OGRTHIED ENGINEERING GEOLOGIST/ OF CANIFLR'S NOTES: Total Depth - 451' Caving in upper 100' 0 0-105' - boring initially drilled to 8 3/4" in diameter to accommodate geophysical logging. Following log-ging, boring reamed to 171" prior to installation of conductor casing. @ 105.0' - boring drilled to 121" in diameter Free water encountered @ 204' Drilling fluid:NL Baroid Aquagel Goldseal bentonite mud (sodium montmorillonite). no additives

LEIGHTON & ASSOCIATES

A - 16

# RESTATED CERTIFICATE OF INCORPORATION OF ALLIED-SIGNAL INC.

As filed with the Secretary of State of the State of Delaware on April 27, 1987

041007

#### RESTATED CERTIFICATE OF INCORPORATION OF ALLIED-SIGNAL INC.

Allied-Signal Inc., which was originally incorporated in the State of Delaware on May 13, 1985 under the name of East/West Newco Corporation, hereby certifies that this Restated Certificate of Incorporation was duly adopted in accordance with the provisions of Section 245 of the General Corporation Law of the State of Delaware, this Restated Certificate of Incorporation only restates and integrates and does not further amend the provisions of the corporation's certificate of incorporation as theretofore amended, and there is no discrepancy between those provisions and the provisions of this Restated Certificate of Incorporation. The text of the Restated Certificate of Incorporation as heretofore amended is hereby restated to read in its entirety as follows:

FIRST: The name of the corporation is Allied-Signal Inc.

SECOND: The address of the registered office of the corporation in the State of Delaware is 1209 Orange Street, in the City of Wilmington, County of New Castle. The name of its registered agent at that address is The Corporation Trust Company.

THIRD: The purpose of the corporation is to engage in any lawful act or activity for which a corporation may be organized under the General Corporation Law of the State of Delaware as set forth in Title 8 of the Delaware Code.

FOURTH: The total number of shares of stock which the corporation shall have authority to issue is 520,000,000 shares of which 500,000,000 shares shall be Common Stock, par value \$1.00 per share ("Common Shares"), and 20,000,000 shares shall be Preferred Stock, without par value ("Preferred Stock").

#### I. Series A Preferred Shares, Series C Preferred Shares, Series D Preferred Shares, Series F Preferred Shares, and Series G Preferred Shares

The designations and the powers, preferences and rights, and the qualifications, limitations or restrictions thereof for the Series A Preferred Shares, the Series C Preferred Shares, the Series D Preferred Shares, the Series F Preferred Shares and the Series G Preferred Shares are as follows (certain capitalized terms being herein used as defined in Clause I.(14) below):

- (1) Number of shares. 51,250 shares of the Preferred Stock shall be Series A Preferred Shares, 3,593,281 shares of the Preferred Stock shall be Series C Preferred Shares, 984,089 shares of the Preferred Stock shall be Series D Preferred Shares, 2,755,173 shares of the Preferred Stock shall be Series F Preferred Shares, and 24,929 shares of the Preferred Stock shall be Series G Preferred Shares.
- (2) Designation of Shares. The Series A Preferred Shares shall be designated as the \$91.25 Series A Cumulative Preferred Shares ("Series A Shares"), without par value, of the corporation, the Series C Preferred Shares shall be designated as the \$6.74 Series C Cumulative Convertible Preferred Shares ("Series C Shares"), without par value, of the corporation, the Series D Preferred Shares shall be designated as the \$12 Series D Cumulative Convertible Preferred Shares ("Series D Shares"), without par value, of the corporation, the Series F Preferred Shares shall be designated as the Adjustable Rate Series F Cumulative Preferred Shares ("Series F Shares"), without par value, of the corporation, and the Series G Preferred Shares shall be designated as the \$86.25 Series G Cumulative Preferred Shares ("Series G Shares"), without par value, of the corporation.
- (3) Dividends. The dividend rate on the Series A Shares shall be \$91.25 per share per annum, the dividend rate on the Series C Shares shall be \$1.685 per share for the quarterly payment due on November 15, 1985, and the dividend rate on the Series C Shares shall thereafter be \$6.74 per share per annum, the dividend rate on the Series D Shares shall be \$3 per share for the quarterly payment due on December 1, 1985, and the dividend rate on the Series D Shares shall thereafter be \$12 per share per annum, the dividend rate per share on the Series F Shares shall be computed for each dividend period by multiplying \$100 by the Applicable Rate for such period and dividing the result by four; provided, however, that the amount of dividends payable for any period shorter

unpaid dividends on the Series A Shares, the Series C Shares, the Series F Shares, the Series G Shares and such Parity Shares, respectively, bear to each other.

(4) Optional Redemptions. A. Subject to the restrictions in Clause I.(3) above and Clauses I.(6) and I.(8) below, the Series A Shares shall be redeemable at the option of the corporation at any time, as a whole or from time to time in part, at the following redemption prices per share if redeemed during the 12-month period ending July 15,

| Year | Redemption Price | Year | Redemption<br>Price |
|------|------------------|------|---------------------|
| 1986 | \$1,062.43       | 1993 | \$1,028.82          |
| 1987 | 1,057.63         | 1994 | 1,024.01            |
| 1988 | 1,052.83         | 1995 | 1,019.21            |
| 1989 | 1,048.03         | 1996 | 1,014.41            |
| 1990 | 1,043.22         | 1997 | 1,009.61            |
| 1991 | 1,038.42         | 1998 | 1,004.80            |
| 1992 | 1,033.62         |      |                     |

and at \$1,000 per share if redeemed at any time after July 15, 1998, plus, in each case, an amount equal to the dividends accrued and unpaid thereon to the redemption date.

B. Subject to the restrictions in Clause I.(3) above and Clause I.(6) below, the Series C Shares shall be redeemable at the option of the corporation at any time after August 14, 1986, as a whole or from time to time in part, at the following redemption prices per share if redeemed during the 12-month period ending August 15,

| Year | Price Price |
|------|-------------|
| 1987 | . \$57.00   |
| 1988 | . 56.50     |
| 1989 | . 56.00     |
| 1990 | . 55.50     |

and at \$55 per share if redeemed at any time after August 15, 1990, plus, in each case, an amount equal to the dividends accrued and unpaid thereon to the redemption date.

- C. Subject to the restrictions in Clause I.(3) above and Clause I.(6) below, the Series D Shares shall be redeemable at the option of the corporation at any time after October 27, 1986, as a whole or from time to time in part, at \$100 per share, plus, in each case, an amount equal to the dividends accrued and unpaid thereon to the redemption date.
- D. Subject to the restrictions in Clause I.(3) above and Clause I.(6) below, the Series F Shares shall be redeemable at the option of the corporation at any time after January 31, 1986, as a whole or from time to time in part, at \$100 per share, plus, in each case, an amount equal to the dividends accrued and unpaid thereon to the redemption date.
- E. Subject to the restrictions in Clause I.(3) above and Clauses I.(6) and I.(8) below, the Series G Shares shall be redeemable at the option of the corporation at any time, as a whole or from time to time in part, at the following redemption prices per share if redeemed during the 12-month period ending July 15,

| Year | Redemption Price |
|------|------------------|
| 1986 | \$1,028.75       |
| 1987 | . 1,019.17       |
| 1988 | . 1.009.58       |

and at \$1,000 per share if redeemed after July 15, 1988, plus, in each case, an amount equal to the dividends accrued and unpaid thereon to the redemption date.

(5) Required Redemptions. A. Subject to the restrictions in Clause I.(3) above, as a sinking fund for the retirement of Series A Shares, but only to the extent of assets of the corporation

on the principal national securities exchange on which the Common Shares are listed or admitted to trading, or if the Common Shares are not listed or admitted to trading on any national securities exchange, the average of the highest reported bid and lowest reported asked prices as furnished by the National Association of Securities Dealers. Inc. through NASDAQ or a similar organization if NASDAQ is no longer reporting such information. If on any such date the Common Shares are not quoted by any such organization, the fair value of such Common Shares on such date, as determined by the Board of Directors, shall be used.

(6) Provisions Applicable to Redemptions. Not less than thirty (30) nor more than sixty (60) days prior to the date fixed for any redemption of Series A Shares, Series C Shares, Series D Shares, Series F Shares or Series G Shares pursuant to Clause I.(4) above or Clause I.(7) below, a notice specifying the time and place of such redemption and the number of shares to be redeemed shall be given by first class mail, postage prepaid, to the holders of record of the Series A Shares, Series C Shares, Series D Shares, Series F Shares or Series G Shares to be redeemed at their respective addresses as the same shall appear on the books of the corporation, but no failure to mail such notice or any defect therein or in the mailing thereof shall affect the validity of the proceedings for redemption. Any notice which was mailed in the manner herein provided shall be conclusively presumed to have been duly given whether or not the holder receives the notice.

Unless the corporation shall fail to pay, upon surrender of the certificates evidencing the shares to be redeemed, the redemption price of any Series A Shares, Series C Shares, Series D Shares, Series F Shares or Series G Shares called for redemption as provided herein, from and after the date fixed for the redemption of such Series A Shares, Series C Shares, Series D Shares, Series F Shares or Series G Shares by the corporation, dividends shall cease to accrue on the Series A Shares, Series C Shares, Series D Shares, Series F Shares or Series G Shares to be redeemed and the holders of such shares shall cease to be stockholders with respect to such shares and shall have no interest in or claims against the corporation by virtue thereof and shall have no voting or other rights, including, in the case of the Series C Shares and Series D Shares, the right to convert such shares into Common Shares pursuant to Clause I.(11) below, with respect to such shares, except the right to receive the moneys payable upon such redemption from the corporation, without interest thereon, upon surrender (and endorsement, if required by the corporation) of their certificates, and the shares evidenced thereby shall no longer be deemed to be outstanding.

The obligations of the corporation to make sinking fund retirements of Series A Shares, Series C Shares, Series D Shares and Series G Shares annually, pursuant to Clause I.(5) above, shall be cumulative and, if at any time any sinking fund retirement required by Clause I.(5) above shall be in arrears, the corporation shall not (i) declare or pay any dividend on the Common Shares or on any Junior Shares or make any payment on account of, or set apart money for a sinking or other analogous fund for, the purchase, redemption or other retirement of any Common Shares or any Junior Shares or make any distribution in respect thereof, either directly or indirectly and whether in cash or property or in obligations or shares of the corporation (other than in Common Shares or Junior Shares), (ii) purchase any Senior Shares, Series A Shares, Series C Shares, Series D Shares, Series F Shares, Series G Shares or Parity Shares or redeem any such shares except for required sinking fund retirements pursuant to Clause I.(5) above or required sinking fund retirements under the provisions of this Certificate of Incorporation applicable to Parity Shares or Senior Shares, or (iii) permit any corporation or other entity directly or indirectly controlled by the corporation to purchase any Common Shares, Junior Shares, Series A Shares, Series C Shares, Series D Shares, Series F Shares, Series G Shares, Parity Shares or Senior Shares, provided that so long as any such required sinking fund retirement with respect to the Series A Shares, Series C Shares, Series D Shares, Series G Shares or any Parity Shares shall be in arrears, all payments on account of such required sinking fund retirements shall be made pro rata with respect to all Series A Shares, Series C Shares, Series D Shares, Series G Shares and Parity Shares then outstanding, so that the amount of such payments shall in all cases bear to each other the same ratio that the respective amounts which would be necessary to discharge in full all such required sinking fund retirements in arrears bear to each other.

- B. The liquidation price of the Series G Shares in case of the voluntary liquidation, dissolution or winding up of the corporation shall be an amount equal to the redemption price per share specified in Clause I.(4)E above applicable on the date of such voluntary liquidation, dissolution or winding up, plus, in each case, an amount equal to the dividends accrued and unpaid thereon to the payment date.
- C. The liquidation price of the Series A Shares and the Series G Shares in case of the involuntary liquidation, dissolution or winding up of the corporation, shall be \$1,000 per share, plus an amount equal to the dividends accrued and unpaid thereon to the payment date.
- D. The liquidation price of the Series C Shares in case of the voluntary or involuntary liquidation, dissolution or winding up of the corporation shall be \$55 per share, plus an amount equal to the dividends accrued and unpaid thereon to the payment date.
- E. The liquidation price of the Series D Shares in case of the voluntary or involuntary liquidation, dissolution or winding up of the corporation shall be \$100 per share, plus an amount equal to the dividends accrued and unpaid thereon to the payment date.
- F. The liquidation price of the Series F Shares in case of the voluntary or involuntary liquidation, dissolution or winding up of the corporation shall be \$100 per share, plus an amount equal to the dividends accrued and unpaid thereon to the payment date.
- G. In the event of any voluntary or involuntary liquidation, dissolution or winding up of the corporation, the holders of the Series A Shares, the holders of the Series C Shares, the holders of the Series D Shares, the holders of the Series F Shares and the holders of the Series G Shares (i) shall not be entitled to receive the liquidation price of such shares held by them until the liquidation price of all Senior Shares shall have been paid in full and (ii) shall be entitled to receive the liquidation price of such shares held by them in preference to and in priority over any distributions upon the Common Shares and all Junior Shares. If the assets of the corporation are not sufficient to pay in full the liquidation price payable to the holders of the Series A Shares, the holders of the Series G Shares, the holders of the Series D Shares, the holders of the Series F Shares, and the holders of the Series G Shares and the liquidation price payable to the holders of all Parity Shares, the holders of all such shares shall share ratably in such distribution of assets in accordance with the amounts which would be payable on such distribution if the amounts to which the holders of the Series A Shares, the holders of the Series C Shares, the holders of the Series D Shares, the holders of the Series F Shares, the holders of the Series G Shares and the holders of all Parity Shares are entitled were paid in full.
- H. Neither a consolidation or merger of the corporation with or into any other corporation, nor a merger of any other corporation with or into the corporation, nor a sale or transfer of all or any part of the corporation's assets for cash or securities shall be considered a dissolution, liquidation or winding-up of this corporation within the meaning of this Clause I.(10).
- (11) Convertibility. A. Neither the Series A Shares, the Series F Shares nor the Series G Shares shall be convertible into any other securities of the corporation.
- B. The Series C Shares shall be convertible at any time at the option of the holders of the Series C Shares into Common Shares at a rate of 1.179 Common Shares for each Series C Share at the office of any duly appointed transfer agent for the Series C Shares, and at such other office or offices, if any, as the Board of Directors of the corporation may determine, and the Series D Shares shall be convertible at any time at the option of the holders of the Series D Shares into Common Shares at a rate of 2.0265 Common Shares for each Series D Share at the office of any duly appointed transfer agent for the Series D Shares and at such other office or offices, if any, as the Board of Directors of the corporation may determine; provided, however, that in case of the redemption of any Series C Shares or Series D Shares, such right of conversion shall cease and terminate, as to the shares called for redemption, at the close of business on the day next prior to the date fixed for redemption, unless default shall be made in the payment of the redemption price. Upon conversion, the corporation shall make no payment or adjustment on account of dividends accrued or in arrears on the Series C Shares or Series D Shares surrendered for conversion or on account of any dividends on the Common Shares issued on such conversion. Before any holder of

would then be in effect had the adjustments made upon the issuance of such rights or warrants been made upon the basis of delivery of only the number of Common Shares actually issued.

- (c) In case the corporation shall distribute to all holders of Common Shares (including any such distribution made in connection with a consolidation or merger in which the corporation is the surviving corporation) evidences of its indebtedness or assets (other than cash dividends or distributions and dividends payable in Common Shares) or subscription rights or warrants (excluding those referred to in paragraph (b) of this Clause I.(11)B), the conversion rate shall be adjusted by multiplying the conversion rate in effect immediately prior to the record date for determination of shareholders entitled to receive such distribution by a fraction, of which the numerator shall be the current market price per Common Share (as defined in paragraph (d) of this Clause I.(11)B) on such record date and of which the denominator shall be such current market price per Common Share, less the fair market value (as determined by the Board of Directors, whose determination shall be conclusive) of the portion of the evidences of indebtedness or assets or subscription rights or warrants so to be distributed which are applicable to one Common Share. Such adjustment shall become effective at the close of business on such record date. If the corporation declares a cash dividend or distribution in an amount equal to or greater than 10% of the current market price per Common Share on the declaration date for such dividend or distribution, the corporation shall give at least 10 days prior written notice to all holders of record of Series C Shares and Series D Shares of the record date for determining those holders of Common Shares who will be entitled to receive such dividend or distribution.
- (d) For the purpose of any computation under paragraphs (b) and (c) of this Clause I.(11)B, the current market price per Common Share on any record date shall be deemed to be the average of the daily closing prices for the 30 consecutive trading days on the New York Stock Exchange composite tape commencing 45 trading days before such date. The closing price of each day shall be the last sale price regular way or, in case no such sale takes place on such day, the average of the closing bid and asked prices regular way, in either case, on the New York Stock Exchange composite tape or, if the Common Shares are not listed or admitted to trading on such exchange, on the principal national securities exchange on which the Common Shares are listed or admitted to trading, or if the Common Shares are not listed or admitted to trading on any national securities exchange the average of the highest reported bid and lowest reported asked prices as furnished by the National Association of Securities Dealers, Inc. through NASDAQ or a similar organization if NASDAQ is no longer reporting such information. If on any such date the Common Shares are not quoted by any such organization, the fair value of such Common Shares on such date, as determined by the Board of Directors, shall be used.
- (e) In case of any capital reorganization of the corporation, or of any reclassification of the Common Shares (other than a reclassification of the Common Shares referred to in paragraph (a) of this Clause I.(11)B), or in case of the consolidation of the corporation with or the merger of the corporation with or into any other corporation or of the sale of the properties and assets of the corporation as, or substantially as, an entirety to any other corporation, each Series C Share and Series D Share shall after such capital reorganization, reclassification of Common Shares, consolidation, merger or sale be convertible into the number of shares of stock or other securities, assets or cash to which a holder of the number of Common Shares receivable (at the time of such capital reorganization, reclassification of Common Shares, consolidation, merger or sale) upon conversion of such Series C Share or Series D Share would have been entitled to receive upon such capital reorganization, reclassification of Common Shares, consolidation, merger or sale, and in any such case, if necessary, the provisions set forth in this Clause I.(11)B with respect to the rights and interests thereafter of the holders of the Series C Shares and Series D Shares shall be appropriately adjusted so as to be applicable, as nearly as may reasonably be, to any shares of stock or other securities, assets or cash thereafter deliverable on the conversion of the Series C Shares and Series D Shares. The subdivision or combination of Common Shares at any time outstanding into a greater or lesser number of shares shall not be deemed to be a reclassification of the

such sale takes place on such day, the average of the high bid and low asked prices regular way in either case on the New York Stock Exchange composite tape or, if the Common Shares are not listed or admitted to trading on such exchange, on the principal national securities exchange on which the Common Shares are listed or admitted to trading, or if the Common Shares are not listed or admitted to trading on any national securities exchange the average of the highest reported bid and lowest reported asked prices as furnished by the National Association of Securities Dealers, Inc. through NASDAQ or a similar organization if NASDAQ is no longer reporting such information. If on any such date the Common Shares are not quoted by any such organization, the fair value of such Common Shares on such date, as determined by the Board of Directors, shall be used.

- (12) Other Preference Shares. So long as any Series A Shares, Series C Shares, Series D Shares, Series F Shares or Series G Shares remain outstanding, the corporation shall not issue any Preference Shares which are not Senior Shares, Parity Shares or Junior Shares. All series of Preferred Shares, whether or not the dividend rates, the dividend payment dates or the redemption or liquidation prices per share thereof differ from those of the Series A Shares, Series C Shares, Series F Shares and Series G Shares, shall be on a parity with all Series A Shares, Series C Shares, Series D Shares, Series F Shares and Series G Shares at the time outstanding as to dividends or other payments and as to the distribution of assets on any voluntary or involuntary dissolution, liquidation or winding up of the corporation. All Series A Shares, Series C Shares, Series D Shares and Series G Shares which are redeemed pursuant to any provision of this Article FOURTH shall be cancelled. No Preferred Shares which are issued, in addition to those designated in this Article FOURTH as of September 19, 1985 as Series A Shares, Series C Shares, Series D Shares, Series F Shares and Series G Shares shall be designated as Series A Shares, Series C Shares, Series D Shares, Series F Shares or Series G Shares.
- (13) Voting Rights. Except as otherwise required by law, holders of Series A Shares, holders of Series F Shares and holders of Series G Shares shall have no voting rights; holders of Series C Shares and Series D Shares shall be entitled to vote on every question submitted to holders of record of the Common Shares, and shall be entitled to one vote for every Series C Share and one vote for every Series D Share standing in such holder's name on the books of the corporation, voting together with the Common Shares and Series AA Shares (as defined in Clause II.(1) herein) as a single class; provided, however, that:
  - A. Dividend Defaults. (1) If and whenever accrued dividends on the Series A Shares, the Series C Shares, the Series D Shares, the Series F Shares or the Series G Shares or any Preferred Shares of any other series shall not have been paid in an aggregate amount equal to or greater than six (6) quarter-annual dividends on the Series A Shares, the Series C Shares, the Series D Shares, the Series F Shares or the Series G Shares or such other Preferred Shares at the time outstanding (each such series being, in this Clause I.(13)A, called a "series in arrears"), then, and in any such event, the number of Directors then constituting the entire Board of Directors of the corporation shall automatically be increased by two Directors and the holders of the shares of all series in arrears, voting together as a single class, shall be entitled to fill such newly created directorships. Such right to vote as a single class to elect two Directors shall, when vested, continue until all dividends in default on the Series A Shares, the Series C Shares, the Series D Shares, the Series F Shares, the Series G Shares and such other Preferred Shares, as the case may be, shall have been paid in full and, when so paid, such right to elect two Directors separately as a class shall cease, subject, always, to the same provisions for the vesting of such right to elect two Directors separately as a class in the case of future dividend defaults. At any time when such right to elect two Directors separately as a class shall have so vested, the corporation may, and upon the written request of the holders of record of not less than 20% of the total number of shares of all series in arrears then outstanding shall, call a special meeting of the holders of such shares to fill such newly created directorships for the election of Directors. In the case of such a written request, such special meeting shall be held within ninety (90) days after the delivery of such request, and, in each case, at the place and upon the notice provided by law and in the By-laws of the corporation, provided, that the corporation shall not be required to call such a special meeting if such request is received less

- C. Voting. Whenever the holders of the Preferred Shares are entitled to vote as a single class, each holder of Series A Shares or Series G Shares shall be entitled to one vote for each such share held of record and, to the extent permitted by applicable law, (1) each holder of shares of any other series of the Preferred Shares shall be entitled to one vote for each \$1,000 of the liquidation price (without regard to accrued dividends) in respect of the involuntary liquidation, dissolution or winding up of the corporation of the shares of such series for each such share held of record and (2) in the case of any such shares such liquidation price of which shall not be an integral multiple of \$1,000, including the Series C Shares, Series D Shares and Series F Shares, each holder thereof shall be entitled to a vote in respect of each such share so held equal to the result obtained by multiplying one by a fraction, the numerator of which is a number equal to the number of dollars constituting such liquidation price of such share and the denominator of which is 1,000.
- (14) Certain Definitions. As used in this Article FOURTH, the following terms shall have the following respective meanings:

"Applicable Rate" shall mean, for any dividend period, the highest of the Treasury Bill Rate, the Ten Year Constant Maturity Rate and the Twenty Year Constant Maturity Rate for such dividend period less 15/100 of 1%; provided, however, that the Applicable Rate for any dividend period shall in no event be less than 8% per annum nor greater than 15% per annum. In the event that the Board of Directors of the corporation determines in good faith that for any reason:

- (i) any one of the Treasury Bill Rate, the Ten Year Constant Maturity Rate and the Twenty Year Constant Maturity Rate cannot be determined for any dividend period, then the Applicable Rate for such dividend period shall be the higher of whichever two of such Rates can be so determined, less <sup>15</sup>/<sub>100</sub> of 1%;
- (ii) only one of the Treasury Bill Rate, the Ten Year Constant Maturity Rate and the Twenty Year Constant Maturity Rate can be determined for any dividend period, then the Applicable Rate for such dividend period shall be whichever such Rate can be so determined, less ½00 of 1%; or
- (iii) none of the Treasury Bill Rate, the Ten Year Constant Maturity Rate and the Twenty Year Constant Maturity rate can be determined for any dividend period, then the Applicable Rate in effect for the preceding dividend period shall be continued for such dividend period.
- "Calendar Period" shall mean a period of fourteen calendar days.
- "Common Shares" shall mean the 500 million shares of Common Stock referred to in the first paragraph of this Article FOURTH.

"Consolidated Net Income" shall mean, for any period, the aggregate of the net income (or net deficit) for such period, before non-recurring items, of the corporation and its consolidated subsidiaries determined in accordance with generally accepted accounting principles. For the purposes hereof, there shall not be included in the net income of the corporation and such consolidated subsidiaries:

- (i) any gain from any write-up of assets not in the ordinary course of business after December 31, 1978;
- (ii) except for Allied Corporation and its subsidiaries as of September 18, 1985, earnings of a subsidiary accrued prior to the date it became a subsidiary;
- (iii) earnings of any corporation, substantially all the assets of which have been acquired by the corporation or any of its subsidiaries in any manner, realized by such corporation prior to the date of such acquisition;
- (iv) the earnings of any person to which assets of the corporation have been sold, transferred or disposed of, or into which the corporation shall have merged, prior to the date of such transaction;

Period), as published weekly during such Calendar Period by any Federal Reserve Bank or by any U.S. Government department or agency selected by the corporation;

- (ii) if a per annum Ten Year Average Yield shall not be published by the Federal Reserve Board or by any Federal Reserve Bank or by any U.S. Government department or agency during such Calendar Period, then the Ten Year Constant Maturity Rate for such dividend period shall mean the arithmetic average of the two most recent weekly per annum average yields to maturity (or the one weekly average yield to maturity, if only one such yield shall be published during the relevant Calendar Period) for all of the actively traded marketable U.S. Treasury fixed interest rate securities (other than Special Securities) then having maturities of not less than 8 nor more than 12 years, as published during such Calendar Period by the Federal Reserve Board or, if the Federal Reserve Board shall not publish such yields, by any Federal Reserve Bank or by any U.S. Government department or agency selected by the corporation; and
- (iii) if the corporation determines in good faith that for any reason the corporation cannot determine the Ten Year Constant Maturity Rate for any dividend period as provided above in this paragraph, then the Ten Year Constant Maturity Rate for such dividend period shall mean the arithmetic average of the per annum average yields to maturity based upon the closing bids during such Calendar Period for each of the issues of actively traded marketable U.S. Treasury fixed interest rate securities (other than Special Securities) with a final maturity date not less than 8 nor more than 12 years from the date of each such quotation, as chosen and quoted daily for each business day in New York City (or less frequently if daily quotations shall not be generally available) to the corporation by at least three recognized dealers in U.S. Government securities selected by the corporation.

In any event, the Ten Year Constant Maturity Rate shall be rounded to the nearest five hundredths of a percentage point.

"Treasury Bill Rate" shall mean, for each dividend period, the arithmetic average of the two most recent weekly per annum market discount rates (or the one weekly per annum market discount rate, if only one such rate shall be published during the relevant Calendar Period) for three-month U.S. Treasury bills, as published weekly by the Federal Reserve Board during the Calendar Period immediately prior to the last ten calendar days of March, June, September or December, as the case may be, prior to the dividend period for which the dividend rate on the Series F Shares is being determined. Notwithstanding the foregoing:

- (i) if the Federal Reserve Board does not publish such a weekly per annum market discount rate during any such Calendar Period, then the Treasury Bill Rate for such dividend period shall mean the arithmetic average of the two most recent weekly per annum market discount rates (or the one weekly per annum market discount rate, if only one such rate shall be published during the relevant Calendar Period) for three-month U.S. Treasury bills, as published weekly during such Calendar Period by any Federal Reserve Bank or by any U.S. Government department or agency selected by the corporation;
- (ii) if a per annum market discount rate for three-month U.S. Treasury bills shall not be published by the Federal Reserve Board or by any Federal Reserve Bank or by any U.S. Government department or agency during such Calendar Period, then the Treasury Bill Rate for such dividend period shall mean the arithmetic average of the two most recent weekly per annum market discount rates (or the one weekly per annum market discount rate, if only one such rate shall be published during the relevant Calendar Period) for all of the U.S. Treasury bills then having maturities of not less than 80 nor more than 100 days, as published during such Calendar Period by the Federal Reserve Board or, if the Federal Reserve Board shall not publish such rates, by any Federal Reserve Bank or by any U.S. Governmental department or agency selected by the corporation;

provided above in this paragraph, then the Twenty Year Constant Maturity Rate for such dividend period shall mean the arithmetic average of the per annum average yields to maturity based upon the closing bids during such Calendar Period for each of the issues of actively traded marketable U.S. Treasury fixed interest rate securities (other than Special Securities) with a final maturity date not less than 18 nor more than 22 years from the date of each such quotation, as chosen and quoted daily for each business day in New York City (or less frequently if daily quotations shall not be generally available) to the corporation by at least three recognized dealers in U.S. Government securities selected by the corporation.

In any event, the Twenty Year Constant Maturity Rate shall be rounded to the nearest five hundredths of a percentage point.

#### II. Series AA Preferred Shares

The designations and the powers, preferences and rights, and the qualifications, limitations or restrictions thereof for the Series AA Shares are as follows (certain capitalized terms being herein used as defined in Clause I.(14) above):

- (1) Designation and Number of Shares. The series established hereby shall consist of 968,754 shares of the 8.25% Series AA Cumulative Convertible Preferred Shares, without par value (the "Series AA Shares").
  - (2) Dividend Rights and Restrictions.
- A. The dividend rate on the Series AA Shares shall be \$1.03125 per share for the quarterly payment due on October 30, 1985, and the dividend rate on the Series AA Shares shall thereafter be \$4.125 per share per annum. Dividends on the Series AA Shares shall be fully cumulative and shall accrue, without interest, from September 19, 1985 and shall be payable in equal quarterly installments on the thirtieth day of January, April, July and October in each year, commencing on October 30, 1985. Such dividends shall accrue whether or not there shall be net profits or net assets of the corporation legally available for payment of such dividends. Accumulations of dividends on the Series AA Shares shall not bear interest.
- B. If at any time the corporation has failed to pay accrued dividends on any Series AA Shares or any Parity Shares at the time outstanding at the times such dividends are payable, the corporation shall not (i) declare or pay any dividend on the Common Shares or on any Junior Shares or make any payment on account of, or set apart money for a sinking or other analogous fund for, the purchase, redemption or other retirement of, any Common Shares or any Junior Shares or make any distribution in respect thereof, either directly or indirectly and whether in cash or property or in obligations or shares of the corporation (other than in Common Shares or Junior Shares), (ii) purchase any Series AA Shares or Parity Shares or redeem (by way of sinking fund retirement pursuant to Clause I.(5) above or otherwise) fewer than all of the Series AA Shares and Parity Shares then outstanding, or (iii) permit any corporation or other entity directly or indirectly controlled by the corporation to purchase any Senior Shares, Common Shares, Junior Shares, Series AA Shares or Parity Shares.
- C. Upon conversion of any Series AA Shares, the holders thereof shall not be entitled to receive any accumulated, accrued or unpaid dividends in respect of such Series AA Shares, provided that such holders shall be entitled to receive any dividends on such Series AA Shares paid or declared prior to such conversion if such holder held such Series AA Shares on the record date for the payment of such dividend.
  - (3) Liquidation Rights.
- A. Upon the voluntary or involuntary dissolution, liquidation or winding-up of the corporation, the holders of the Series AA Shares then outstanding shall be entitled to receive, with respect to each such share held by such holder, out of the assets of the corporation (whether representing capital or surplus), subject to the rights of the holders of any Senior Shares, but before any such distribution shall be made on any Common Shares or Junior Shares, \$50 in cash,

- D. Unless the corporation shall fail to pay, upon surrender of the certificates evidencing the shares to be redeemed, the redemption price of any Series AA Shares called for redemption as provided herein, then, subject to the provisions of Clause II.(6)D, on and after the redemption date (i) the shares represented thereby shall not be deemed outstanding, (ii) the right to receive dividends thereon shall cease to accrue and (iii) all rights of holders of such shares shall cease and terminate, excepting only the right to receive the redemption price therefor, plus accrued and unpaid dividends as provided in Clause II.(4)A, but without interest. Any moneys so available for payment by the corporation and unclaimed at the end of one year from the redemption date shall revert to the general funds of the corporation after which reversion the holders of such shares shall (subject to applicable escheat laws) look only to the general funds of the corporation for payment of the redemption price.
- E. In the case of each partial redemption of Series AA Shares, the shares to be redeemed shall be determined by the corporation either by lot or on a pro rata basis as prescribed by the Board of Directors or the Executive Committee.
- F. In order to facilitate the redemption of any shares of Series AA Shares, the Board of Directors is authorized to cause the transfer books of the corporation to be closed as to such shares no later than 10 days prior to such redemption.
- G. If at any time any sinking fund retirement required by Clause I.(5) above shall be in arrears, the corporation shall not (i) purchase any Senior Shares, Series AA Shares or Parity Shares or redeem any such shares except for required sinking fund retirements pursuant to Clause I.(5) above or required sinking fund retirements under the provisions of this Certificate of Incorporation applicable to Parity Shares or Senior Shares, or (ii) permit any corporation or other entity directly or indirectly controlled by the corporation to purchase any Common Shares, Junior Shares, Series AA Shares, Parity Shares or Senior Shares.
- (5) Voting Rights. Except as otherwise required by law, holders of Series AA Shares shall be entitled to vote on every question submitted to holders of record of the Common Shares, and shall be entitled to one vote for every Series AA Share standing in such holder's name on the books of the corporation, voting together with the Common Shares, Series C Shares and Series D Shares as a single class; provided, however, that:
  - A. Dividend Defaults. (1) If and whenever accrued dividends on the Series AA Shares or any Preferred Shares of any other series shall not have been paid in an aggregate amount equal to or greater than six (6) quarter-annual dividends on the Series AA Shares or such other Preferred Shares at the time outstanding (each such series being in this Clause II.(5)A called a "series in arrears"), then, and in any such event, the number of Directors then constituting the entire Board of Directors of the corporation shall automatically be increased by two Directors and the holders of the shares of all series in arrears, voting together as a single class, shall be entitled to fill such newly created directorships. Such right to vote as a single class to elect two Directors shall, when vested, continue until all dividends in default on the Series AA Shares and such other Preferred Shares, as the case may be, shall have been paid in full and, when so paid, such right to elect two Directors separately as a class shall cease, subject, always, to the same provisions for the vesting of such right to elect two Directors separately as a class in the case of future dividend defaults. At any time when such right to elect two Directors separately as a class shall have so vested, the corporation may, and upon the written request of the holders of record of not less than 20% of the total number of shares of all series in arrears then outstanding shall, call a special meeting of the holders of such shares to fill such newly created directorships for the election of Directors. In the case of such a written request, such special meeting shall be held within ninety (90) days after the delivery of such request, and, in each case, at the place and upon the notice provided by law and in the By-laws of the corporation, provided that the corporation shall not be required to call such a special meeting if such request is received less than one hundred twenty (120) days before the date fixed for the next ensuing annual meeting of stockholders of the corporation, at which meeting such newly created directorships shall be filled by the holders of the shares of each series in arrears, voting together as a single class.

- (6) Conversion Rights.
- A. Any Series AA Share may be converted at any time, at the option of the holder thereof, into Common Shares at the rate and on the other terms and conditions set forth in this Clause II.(6).
- B. Any holder of Series AA Shares desiring to convert the same into Common Shares shall surrender the certificate or certificates for the Series AA Shares being converted, duly assigned or endorsed to the corporation, at the location specified for such purpose in Clause II.(7)A or at a bank or trust company appointed by the corporation for that purpose, accompanied by a written notice of conversion. Such notice shall specify the number of whole shares of Series AA Shares to be converted and the name or names in which such holder wishes the certificate or certificates for Common Shares to be issued. In case such notice shall specify a name or names other than that of such holder, such notice shall be accompanied by payment of all transfer taxes payable upon the issue of Common Shares in such name or names.
- C. As soon as practicable after the surrender of any certificates for conversion, the corporation shall issue and deliver to such holder, at the address of such holder on the stock transfer books of the corporation, or to his designee, a certificate or certificates for the number of full Common Shares to which such holder shall be entitled on conversion. In case there shall have been surrendered a certificate or certificates for Series AA Shares converted in part only, the corporation shall issue and deliver to such holder a new certificate or certificates for the number of Series AA Shares which shall not have been converted. The corporation shall not issue fractional Common Shares upon any conversion of Series AA Shares, but in lieu thereof the corporation shall pay to the holder of Series AA Shares being converted a cash amount in respect of the fraction of such Common Share otherwise issuable upon conversion equal to such fraction multiplied by the closing sale price of one Common Share on the principal securities exchange on which it is traded on the day of surrender of the certificate or certificates to be converted, or, if not then listed on any such exchange, the mean between the high-bid and low-asked prices for the Common Shares in the over-the-counter market at such day; provided that if such day in either case shall be a day on which such Common Shares shall not have been traded, then such day shall mean the next preceding day on which such Common Shares shall have been traded. If more than one Series AA Share shall be surrendered for conversion at any one time by the same holder, any fractional shares otherwise resulting from conversion of each one thereof shall be aggregated so that with respect to any one holder there shall be no more than one fractional Common Share issuable upon such conversion. Such conversion shall be effective immediately prior to the close of business on the day of the surrender of the certificate or certificates for shares to be converted, and the person or persons entitled to receive the Common Shares issuable upon such conversion shall be treated for all purposes as the record holder or holders of such Common Shares at such time.
- D. If the corporation shall have given notice of any redemption pursuant to Clause II.(4)A and any holder of Series AA Shares shall, prior to the close of business on the last business day preceding the redemption date specified in such notice of redemption, give written notice to the corporation, pursuant to Clause II.(6)B, of the conversion of any or all of the shares to be redeemed, then such redemption shall not become effective as to such shares to be converted and such conversion shall become effective as hereinafter provided in this Clause II.(6).
- E. In case of the call for redemption of any Series AA Shares, any right to give notice of conversion as to any of such shares shall terminate at the close of business on the last business day prior to the redemption date specified in the notice thereof. If the corporation shall default in the payment of the redemption price of such shares when due, the conversion rights in respect thereof, if any, shall be reinstated until such default shall have been cured or waived.
- F. Series AA Shares shall be convertible into fully paid and nonassessable Common Shares at a conversion rate (subject to adjustment as provided in Clauses II.(6)G and II.(6)H) of 1.4706 Common Shares for each Series AA Share converted (such initial conversion rate, as so adjusted, is called the "Conversion Rate")).

question. The closing price for each day shall be the last reported sales price regular way or, in case no such reported sale takes place on such day, the average of the reported closing bid and asked prices regular way, in either case on the New York Stock Exchange, or, if the Common Shares are not listed or admitted to trading on such Exchange, on the principal national securities exchange on which the Common Shares are listed or admitted to trading, or if not listed or admitted to trading on any national securities exchange, the average of the closing bid and asked prices as furnished by any member of the National Association of Securities Dealers, Inc. selected from time to time by the corporation for that purpose.

- (d) No adjustment in the conversion rate shall be required unless such adjustment (plus any adjustments not previously made by reason of this Clause II.(6)G(d)) would require an increase or decrease of at least 1% in the number of Common Shares into which each Series AA Share is then convertible; provided, however, that any adjustment which by reason of this Clause II.(6)G(d) is not required to be made shall be carried forward and taken into account in any subsequent adjustment. All calculations under this Clause II.(6)G shall be made to the nearest one-hundred thousandth of a share.
- (e) The corporation may, by action of the Board of Directors or Executive Committee, at its election, increase the Conversion Rate to avoid or diminish any Federal income tax to any holder of Common Shares resulting from any dividend or distribution of stock or issuance of rights or warrants to purchase or subscribe for stock or from any event treated as such for Federal income tax purposes.
- H. In case the corporation shall effect any capital reorganization or reclassification of its shares or shall consolidate or merge with or into any other corporation (including any merger in which the corporation is the surviving corporation unless each Common Share outstanding immediately prior to such merger is to remain outstanding immediately after the merger) or shall transfer substantially all its assets to any other corporation, lawful provision shall be made as a part of the terms of such transaction whereby the holders of Series AA Shares (or of any convertible security which has been exchanged, substituted or issued for Series AA Shares) shall, if entitled to convert such shares (or other such securities) at any time after the consummation of such transaction, receive upon conversion thereof in lieu of each Common Share issuable upon conversion of such shares prior to such consummation the same kind and amount of stock (or other securities, cash or property, if any) as may be issuable or distributable in connection with such transaction with respect to each outstanding Common Share (or of any security which has been exchanged, substituted or issued for such Common Share) subject to adjustments for subsequent stock dividends and distributions, subdivisions or combinations of shares, capital reorganizations, reclassifications, consolidations or mergers as nearly equivalent as possible to the adjustments provided for in this Clause II.(6).
- I. Within 15 days after any adjustment of the Conversion Rate pursuant to this Clause II.(6), the corporation shall give notice thereof to each holder of record of Series AA Shares, which notice shall state the Conversion Rate resulting from such adjustment, setting forth in reasonable detail the method of calculation and the facts upon which such calculation is based.
- J. The corporation shall at all times reserve and keep available out of its authorized Common Shares, solely for issuance (free from any preemptive rights) upon the conversion of Series AA Shares as herein provided, such number of Common Shares as shall from time to time be issuable upon the conversion of all the Series AA Shares at the time outstanding. The corporation shall obtain and keep in force such permits or other authorizations as may be required by law to, and shall comply with all requirements as to qualification in order to, enable the corporation lawfully to issue and deliver such number of its Common Shares as shall from time to time be sufficient to effect the conversion of all Series AA Shares from time to time outstanding. The corporation shall from time to time in accordance with applicable law increase the authorized number of Common Shares if at any time the authorized Common Shares remaining unissued and unreserved for other purposes (together with the Common Shares held in its treasury) shall not be sufficient to permit the conversion of all the Series AA Shares at the time outstanding.

The corporation may issue Preferred Stock from time to time in one or more series as the Board of Directors may establish by the adoption of a resolution or resolutions relating thereto, each series to have such voting powers, full or limited, or no voting powers, and such designations, preferences and relative, participating, optional or other special rights, and qualifications, limitations or restrictions thereof, as shall be stated and expressed in the resolution or resolutions providing for the issue of such series adopted by the Board of Directors pursuant to authority to do so, which authority is hereby granted to the Board of Directors.

SIXTH: The duration of the corporation is to be perpetual.

SEVENTH: Except as otherwise provided pursuant to the provisions of this Certificate of Incorporation relating to the rights of certain holders of Preferred Stock to elect additional Directors under specified circumstances, the number of Directors of the corporation shall be determined from time to time in the manner described in the By-laws. The Directors, other than those who may be elected by the holders of Preferred Stock pursuant to this Certificate of Incorporation, shall be classified with respect to the time for which they severally hold office, into three classes, as nearly equal in number as possible, as shall be provided in the manner specified in the By-laws, one class to be originally elected for a term expiring at the annual meeting of stockholders to be held in 1986, another class to be originally elected for a term expiring at the annual meeting of stockholders to be held in 1987, and another class to be originally elected for a term expiring at the annual meeting of stockholders to be held in 1988, with the members of each class to hold office until their successors have been elected and qualified. At each annual meeting of stockholders, the successors of the class of Directors whose term expires at that meeting shall be elected to hold office for a term expiring at the annual meeting of stockholders held in the third year following the year of their election. No Director need be a stockholder.

Except as otherwise provided pursuant to this Certificate of Incorporation relating to the rights of certain holders of Preferred Stock to elect Directors under specified circumstances, newly created directorships resulting from any increase in the number of Directors and any vacancies on the Board of Directors resulting from death, resignation, disqualification, removal or other cause shall be filled by the affirmative vote of a majority of the remaining Directors then in office, even if less than a quorum of the Board of Directors, or by a sole remaining director. Any Director elected in accordance with the preceding sentence shall hold office until the annual meeting of stockholders at which the term of office of the class to which such Director has been elected expires, and until such Director's successor shall have been elected and qualified. No decrease in the number of Directors constituting the Board of Directors shall shorten the term of any incumbent Director.

Subject to the rights of certain holders of Preferred Stock to elect Directors under circumstances specified in this Certificate of Incorporation, any Director may be removed from office only for cause by the affirmative vote of the holders of at least 80% of the voting power of the then outstanding shares of capital stock of the corporation entitled to vote generally in the election of Directors (the "Voting Stock"), voting together as a single class.

Notwithstanding anything contained in this Certificate of Incorporation to the contrary, the affirmative vote of the holders of at least 80% of the Voting Stock, voting together as a single class, shall be required to amend or repeal, or adopt any provision inconsistent with, this Article SEVENTH.

EIGHTH: The By-laws of the corporation may contain provisions, not inconsistent with law or this Certificate of Incorporation, relating to the management of the business of the corporation, the regulation of its affairs, the transfer of its stock, the qualifications, compensation and powers and duties of its Directors and the time and place and the manner of calling the meetings of its stockholders and Directors.

The Board of Directors may from time to time fix, determine and vary the amount of the working capital of the corporation, may determine what part, if any, (i) of its surplus or (ii) in case there shall be no such surplus, of its net profits for the fiscal year in which the dividend is declared and/or the preceding fiscal year shall be declared as dividends and paid to the stockholders, may determine the time or times for the declaration and payment of dividends, the amount thereof and whether they are to

misconduct or a knowing violation of law, (iii) under Section 174 of the Delaware General Corporation Law, or (iv) for any transaction from which the Director derived an improper personal benefit. If the Delaware General Corporation Law is amended after approval by the stockholders of this Article ELEVENTH to authorize corporate action further eliminating or limiting the personal liability of directors, then the liability of a Director of the corporation shall be eliminated or limited to the fullest extent permitted by the Delaware General Corporation Law, as so amended. Any repeal or modification of this Section by the stockholders of the corporation shall not adversely affect any right or protection of a Director of the corporation existing at the time of such repeal or modification.

#### (2) Indemnification and Insurance.

- (A) Right to Indemnification. Each person who was or is made a party or is threatened to be made a party to or is otherwise involved in any action, suit or proceeding, whether civil, criminal, administrative or investigative (hereinafter a "proceeding"), by reason of the fact that he or she, or a person of whom he or she is the legal representative, is or was a Director, officer or employee of the corporation or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation or of a partnership, joint venture, trust or other enterprise, including service with respect to employee benefit plans (hereinafter, an "indemnitee"), whether the basis of such proceeding is alleged action in an official capacity as a Director, officer, employee or agent or in any other capacity while serving as a Director, officer, employee or agent, shall be indemnified and held harmless by the corporation to the fullest extent authorized by the Delaware General Corporation Law. as the same exists or may hereafter be amended (but, in the case of any such amendment, only to the extent that such amendment permits the corporation to provide broader indemnification rights than said Law permitted the corporation to provide prior to such amendment), against all expense, liability and loss (including attorneys' fees, judgments, fines, ERISA excise taxes or penalties and amounts paid or to be paid in settlement) reasonably incurred or suffered by such indemnitee in connection therewith and such indemnification shall continue as to an indemnitee who has ceased to be a Director, officer, employee or agent and shall inure to the benefit of the indemnitee's heirs, executors and administrators; provided, however, that, except as provided in paragraph (B) hereof with respect to proceedings to enforce rights to indemnification, the corporation shall indemnify any such indemnitee in connection with a proceeding (or part thereof) initiated by such indemnitee only if such proceeding (or part thereof) was authorized by the Board of Directors of the corporation. The right to indemnification conferred in this Section shall be a contract right and shall include the right to be paid by the corporation the expenses incurred in defending any such proceeding in advance of its final disposition (hereinafter, an "advancement of expenses"); provided, however, that, if the Delaware General Corporation Law requires, an advancement of expenses incurred by an indemnitee in his or her capacity as a Director or officer (and not in any other capacity in which service was or is rendered by such indemnitee, including, without limitation, service to an employee benefit plan) in advance of the final disposition of a proceeding, shall be made only upon delivery to the corporation of an undertaking (hereinafter, an "undertaking"), by or on behalf of such indemnitee, to repay all amounts so advanced if it shall ultimately be determined by final judicial decision from which there is no further right to appeal (hereinafter, a "final adjudication") that such indemnitee is not entitled to be indemnified for such expenses under this Section or otherwise, and, provided further, that an advancement of expenses incurred by an employee other than a Director or officer in advance of the final disposition of a proceeding shall be made, unless otherwise determined by the Board of Directors, only upon delivery to the corporation of an undertaking by or on behalf of such employee to the same effect as any undertaking required to be delivered by a Director or officer.
- (B) Right of Indemnitee to Bring Suit. If a claim under paragraph (A) of this Section is not paid in full by the corporation within sixty days after a written claim has been received by the corporation, except in the case of a claim for an advancement of expenses, in which case the applicable period shall be twenty days, the indemnitee may at any time thereafter bring suit against the corporation to recover the unpaid amount of the claim. If successful in whole or in part in any such suit, or in a suit brought by the corporation to recover an advancement of expenses pursuant to the terms of an undertaking, the indemnitee shall be entitled to be paid also the expense of prosecuting or defending such suit. In (i) any suit brought by the indemnitee to enforce a right to indemnification hereunder (but not in a suit brought by the indemnitee to enforce a right to an advancement of expenses) it shall be a defense that,

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#### 1990 Annual Report



A Commitment to Excellence

17,18,19,20,22

#### Allied-Signal Inc.

Allied-Signal's businesses are organized into three segments — Aerospace, Automotive and Engineered Materials — and serve vital industries in major markets worldwide. The Corporation has 105,800 employees at over 450 facilities in the United States and more than 40 other countries and territories.

#### Financial Highlights

Years ended December 31

| (Dollars in millions except per share amounts) | 1990     | 1989     | 1988     |
|--|----------|----------|----------|
| Net sales                                      | \$12,343 | \$11,942 | \$11,909 |
| Net income                                     | 462      | 528      | 463      |
| Percent of sales                               | 3.7      | 4.4      | 3.2*     |
| Earnings per share                             | 3.35     | 3.55     | 3.10     |
| Dividends per share                            | 1.80     | 1.80     | 1.80     |
| Research, development and engineering          | 721      | 603      | 647      |
| Return on average shareholders' equity         | 13.9     | 15.6     | 12.0     |
| Total assets                                   | 10,456   | 10,342   | 10,069   |
| Book value per share of common stock           | 25.10    | 23.53    | 22.09    |
| Average shares outstanding (in millions)       | 138.2    | 148.8    | 149.3    |
| Common shareholders                            | 97,210   | 102,042  | 111,402  |
|  |          |          |          |

\*Excludes nonrecurring items

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#### **To Our Shareholders**

ineteen ninety was a year of mixed results. The economic slow-down adversely affected all of our businesses, especially Automotive, which also experienced losses in its Brazilian operations and turbocharger unit. Aerospace and Engineered Materials earnings remained strong, and all three businesses achieved sig-

nificant successes with new products, contract wins and other programs that strengthen our longer-term prospects.

But 1990's performance did not meet our goals. Earnings were \$462 million, a decline of \$66 million from the previous year. Earnings per share were \$3.35, only slightly below 1989, in part as a result of our share buy-back program.

We are continuing to pursue a sale of our 39 percent interest in Union Texas Petroleum Holdings, Inc., an energy exploration and production company. Late in the year, Union Texas' board of directors announced that it had discontinued efforts to sell the entire company but would continue efforts to sell its U.S. businesses. Allied-Signal's investment in Union Texas remains a valuable asset.

Allied-Signal Aerospace achieved solid results in 1990, with a number of factors contributing to the good performance. The sector's business mix is well balanced between original-equipment and aftermarket sales, between commercial and government sales, and between U.S. and non-U.S. sales. In addition, we benefit from strong leadership in most of our key products such as avionics, auxiliary power units and aircraft wheels and brakes. Finally, we continue to develop and engineer new products and systems that build on our technological strengths.

Commercial aviation represents some of the best growth prospects for the future. Over 40 airlines around the world have selected our Traffic Alert and Collision Avoidance System (TCAS). In addition, Airbus Industrie will offer our system as standard optional equipment on all its new aircraft. We have also begun marketing the system for use on corporate aircraft.

We have received contracts with over one billion dollars in sales potential for the new Boeing 777 airliner. About half the business is for our *Garrett* auxiliary power units (APU), the balance for cabin pressure and air supply systems.

Our *Garrett* APU also was selected for the new Eurofighter program, a contract valued at about \$150 million that helps confirm our leadership in the European APU market. And our new CFE738 turbofan engine, developed in a

joint venture with General Electric, was selected to power Dassault's new Falcon 2000 twin-engine eightpassenger jet.

llied-Signal Automotive experienced a serious setback during the year. The problems, to a large extent, are concentrated in the recession-hit North American market, the U.S. turbocharger business and in our Brazilian operations, which were affected by that government's anti-inflation policies.

The sector has tightened controls on all phases of its operations, especially working capital, staffing levels, expenses and capital expenditures. If the recession should persist or deepen, we are prepared to take

further actions to offset its impact.

We took decisive action in response to the disappointing performance of the Garrett turbocharger business. We realigned the management structure with new leadership and are reducing the number of U.S. plants from five to three. We expect the turbocharger unit to significantly improve its results in 1991.

Despite the sagging economy, some units, like Bendix Heavy Vehicle Systems, are holding their own. And others, most notably Autolite, are achieving excel-

lent results.

Europe holds particular promise for profitable growth. Our more than 40 European automotive plants and other facilities, with nearly 15,000 employees and \$1.8 billion in sales, give us perhaps the best strategic position of any U.S.-based automotive supplier in Europe.

Our sizeable investment in anti-lock braking systems (ABS), for example, has resulted in a full range of products that will contribute substantially to our growth in Europe. We now supply our ABS to Peugeot and Renault and will begin production in 1992 for two

other major automotive manufacturers.

The recent acquisition of the Valeo brake friction materials business in France and Spain also has improved our ability to serve the European market with a full range of products.

llied-Signal Engineered Materials achieved good results for the year. Despite the economic slowdown, its business units continued to demonstrate the strong returns and cash flow they have historically generated.

The high-density polyethylene joint venture established last year with Exxon Corporation also had very good results, as did our UOP process technology joint venture with Union Carbide set up in 1988.

In 1990, Engineered Materials embarked on a number of initiatives designed to broaden and strengthen its competitive presence. Most notable has been its aggressive expansion into world markets.

In Europe, we announced plans for a new polyester fiber plant in Longlaville, France, to meet the growing need for high-performance, low-cost fiber for passenger car tires and other industrial uses. We also plan to double the capacity of our automotive catalysts plant in Florange, France. The demand for catalysts will grow exponentially in Europe as stringent auto emission standards are put in place starting with the 1993 model year.

We are also continuing to pursue opportunities in the Far East. Next year at a new plant in Thailand, Norplex Oak will start production of copper-clad circuit board laminates for customers throughout the Pacific Rim. The sector also has started shipments of our proprietary amorphous metal alloy, *Metglas*, into Japan under an agreement reached by the U.S. Trade Representative. The Japanese market for this advanced material is estimated at \$100 million annually.

Looking forward into 1991 and beyond, the challenges and uncertainties that grip our attention are apparent. The course of the recession cannot be determined with full confidence. And, the impact of the Persian Gulf War on the economy and our businesses is difficult to assess. The need to maintain lean and efficient operations was never more urgent than it is now. In response, we recently instituted a company-wide salary freeze, and we are taking other actions to lower our operating expenses.

But, in spite of the need to respond to these immediate concerns, several priorities remain at the core of Allied-Signal's strategic purpose and plans. We are convinced that they will see us through the economic slump and, more importantly, let us emerge a stronger, better positioned and more successful company in the

years ahead.

irst, we are steadfast in our commitment to quality and productivity gains. We are determined to have the pursuit of quality influence our every decision, involve all of our employees, and change each of our businesses. The handful of examples described in this report represents only the beginning of a movement that is gathering force across the Company.

Second, we are continuing to make the necessary investments in projects that will build our future. Our investments remained substantial in 1990: Companyfunded research, development and engineering totaled \$721 million and capital expenditures were \$675 million. Current plans call for 1991 spending at about the same levels. These expenditures represent not only opportunities but the foundations of a future that will not wait for the recession to run its course.

Finally, the expanding and newly opened markets in Europe, the Far East and elsewhere offer tremendous opportunities for selective growth. Many of our efforts in 1990 were focused on these global opportuni-

ties. We will continue to do so.

What we want is an approach that achieves a strong current profit performance and the longer-term objectives inherent in these three priorities, a creative balance that engages all of our managers, production workers, engineers and scientists. We are confident that our 105,800 employees have the energy, the will and the resources to achieve this goal, and we are determined to make it happen.

Edward L. Hennessy, Jr.

Edward L. Hennessy, Jr. Chairman and Chief Executive Officer Alan Belzer President and

President and Chief Operating Officer



# A Commitment to Excellence

o succeed in the 1990s, quality must be an obsession and productivity a driving force. Many processes aimed at improving both have emerged at Allied-Signal over the past several years. They have focused on customers' needs and on the Company's determination to produce high-quality, reliable products at low cost. Some have required the expenditure of capital funds; all have evolved through the ingenuity and collaboration of employees. The profiles that follow are a sampling of the diverse quality/productivity efforts that are under way in the Company. They honor the employees directly involved in the activities. They also pay tribute to all the Allied-Signal men and women whose commitment to excellence is helping assure the Company's future prosperity while adding to their own work experience and job satisfaction.

achining specialist Ed Simko, who operates a numerically controlled machining center at Garrett Engine Division, Phoenix, Arizona, is typical of the Allied-Signal craftsman whose skills on a variety of machine tools are needed for advanced manufacturing cells. This type of machine arouping assures product quality. significantly reduces plant lead times and increases efficiency Such progress helped the Division earn a 1990 Chairman's Award for Productivity Excellence.



## Customer Relations: Forging Strategic Alliances

uilding strong relationships with customers is central to Allied-Signal's success in the marketplace. It entails working with them to develop specifications for the components, parts or systems that will enhance their end-products; manufacturing and delivering these products according to customers' requirements and providing solid aftermarket support.

Of the many such efforts throughout the Company, few are more creative and fruitful than SAM — the Strategic Alliance Mills initiative launched by Engineered Materials' Allied Fibers group in

Petersburg, Virginia.

With quality and productivity as its linchpins, the SAM program is strengthening the bond between Allied Fibers and the mills that use its *Anso* and *Anso V WorryFree* nylon fibers in the manufacture of

their residential and commercial carpeting.

At the heart of the SAM program are the teams of Allied Fibers representatives from virtually every area — sales, product development, manufacturing, technical, customer service and merchandising — who have formed partnerships with their counterparts at the mills, meeting regularly either at Allied facilities or customers' plants to explore ways to help each other improve their products, processes, marketing and service functions.

SAM is a logical extension of the business unit's many customerfocused activities, ranging from retail merchandising promotions and technical seminars to consumer literature and hotlines, all of which have helped the Company's nylon fibers products gain their very

strong market positions.

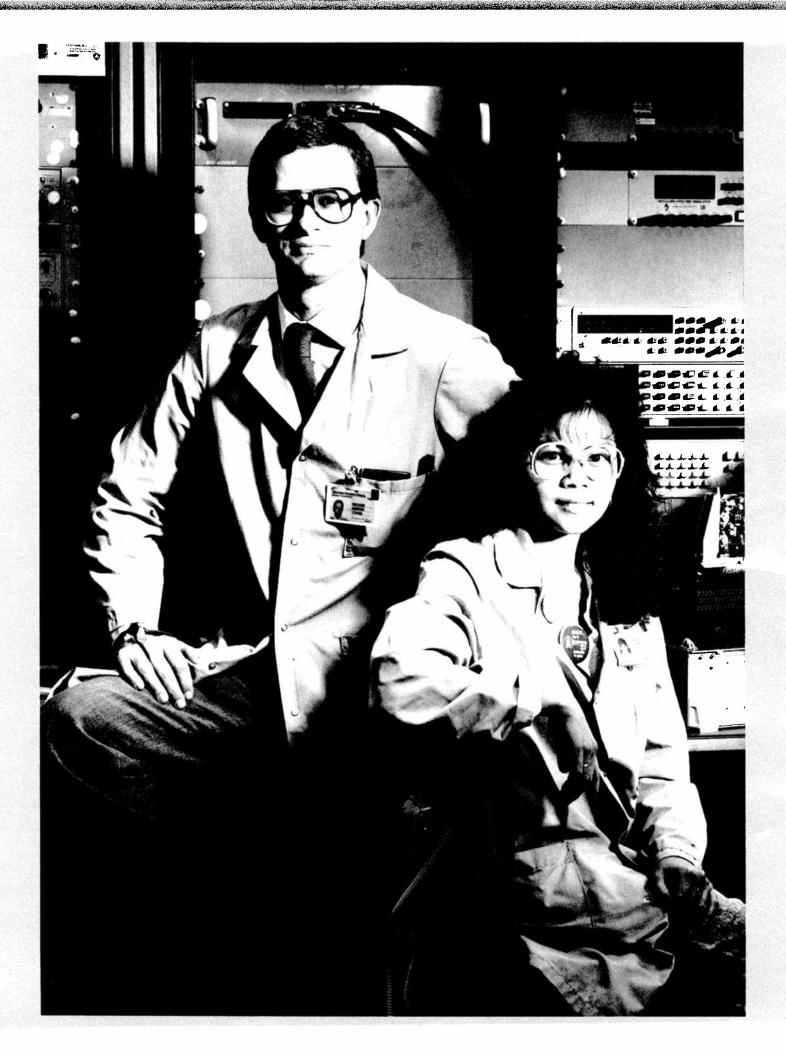
Not surprisingly, Allied Fibers' mill customers have embraced SAM with enthusiasm. One large carpet manufacturer, for example, has drawn on a SAM team's recommendations to improve stock-keeping units, materials flow and reduce inventory buildup, while another is targeting techniques to incorporate greater product quality into its manufacturing process.

In the highly competitive fibers industry, SAM is unique, a collaborative effort helping both Allied Fibers and its mill customers embark on dozens of quality and productivity journeys where it counts most — at the very beginning of the distribution chain.



**A**llied Fibers engineer Charles Rollins. left, and Eddie Middlebrooks, manager of Shaw Industries' Milledaeville, Georgia, plant, are two members of a SAM team. The technical experts are in constant contact, sharing their knowledge to help improve product quality and vields in their own and each other's operations. Shaw Industries, Inc. uses Anso products in their Cabin Crafts. Philadelphia and Evans-Black carpeting.





upervisor Bill Hunter and Trana Luona, a test technician, are among the scores of AiResearch employees responsible for maintaining the plant's high quality standards and productivity gains. As a corrective action team leader. Hunter has the authority to troubleshoot manufacturing problems in his area if they arise, while Luong's pretesting of electronic circuitry before installation assures defectfree engine controls.



## **Employee Participation: Creating a New Culture**

or decades, corporations like Allied-Signal have routinely claimed that people are their greatest asset. Yet, just how great was never fully appreciated until management began to harness in earnest the power of individual initiative and innovation. Today, employee participation and teamwork are becoming more prevalent and the results are often dramatic, as they have been at Allied-Signal Aerospace's AiResearch Division in Tucson, Arizona.

As recently as three years ago, this division, which manufactures electronic controls, air data computers and monitoring devices, was plagued with operational problems. It had too much of everything: too many suppliers, departments, supervisors and projects in the master production schedule. It also had too much work-in-process.

A new management team with a vision and strategy for continuous improvement moved in. Central to its success would be the creation of a more participative culture where well-trained employees would assume greater responsibility for the quality of their output, be empowered to remedy problems as they arose and encouraged to offer suggestions on ways to improve the plant's efficiency.

Using a team approach to identify the most pressing issues as well as solutions, the management and the workers introduced many changes. Those designed to improve the flow of materials — from the procurement of parts to the shipment of finished goods — were the broadest in scope. For example, the number of outside suppliers was reduced from some 1,500 to 500 and the materials and procurement operations were consolidated and streamlined to eliminate an entire level of supervision. The master production schedule was also brought into sharper alignment with customers' delivery requirements.

The results to date: 95 percent of the plant's products are being shipped on time; inventory days have been cut in half, saving millions of dollars in working capital; in-process rejects are down by 25 percent, and the amount of goods shipped per manufacturing employee per month is up 40 percent.

One of the most meaningful measures is how the Tucson unit is doing in the eyes of its customers. From all accounts, quite well: one of them, Boeing Military Airplane Company of Wichita, Kansas, has chosen the AiResearch Division as the benchmark for the caliber of service and support it needs and wants from its suppliers.

The 1,400 people at AiResearch are quick to note that there is more to be done. But that, they emphasize, is the very core of their continuous improvement strategy.

#### **Manufacturing: Building in Quality**

ver the last decade, Allied-Signal has invested hundreds of millions of dollars to retool its manufacturing facilities to improve product quality, boost production and reduce costs. At Automotive's Bendix Heavy Vehicle Systems plant in London, Ontario, the transformation to state-of-the-art manufacturing not only brought about such im-

provements but also strengthened the plant's competitive position. There was little doubt about the need for change at this Canadian site, where brake valves for heavy trucks are produced. Opened in the 1960s, the plant's operating costs constantly spiraled upward. By the early 1980s, competition from overseas and other low-cost manufac-

turers was seriously jeopardizing the plant's viability.

Convinced they could produce higher quality goods and improve their profitability with more up-to-date production methods — and aware they would save more jobs with automation than would be lost if the negative trends continued — the plant management sought and obtained approval for a five-year program to modernize the factory floor.

By 1985, flexible machining systems, advanced robotics, statistical process controls, computerized equipment for testing during assembly and a plant-wide "data highway" that tracks quality, engineering and production data were all put in place. The cost was about \$4.3 million.

Although a relatively small outlay for a company with the financial resources of Allied-Signal, the expenditures realized big improvements for the plant, more than justifying the expense.

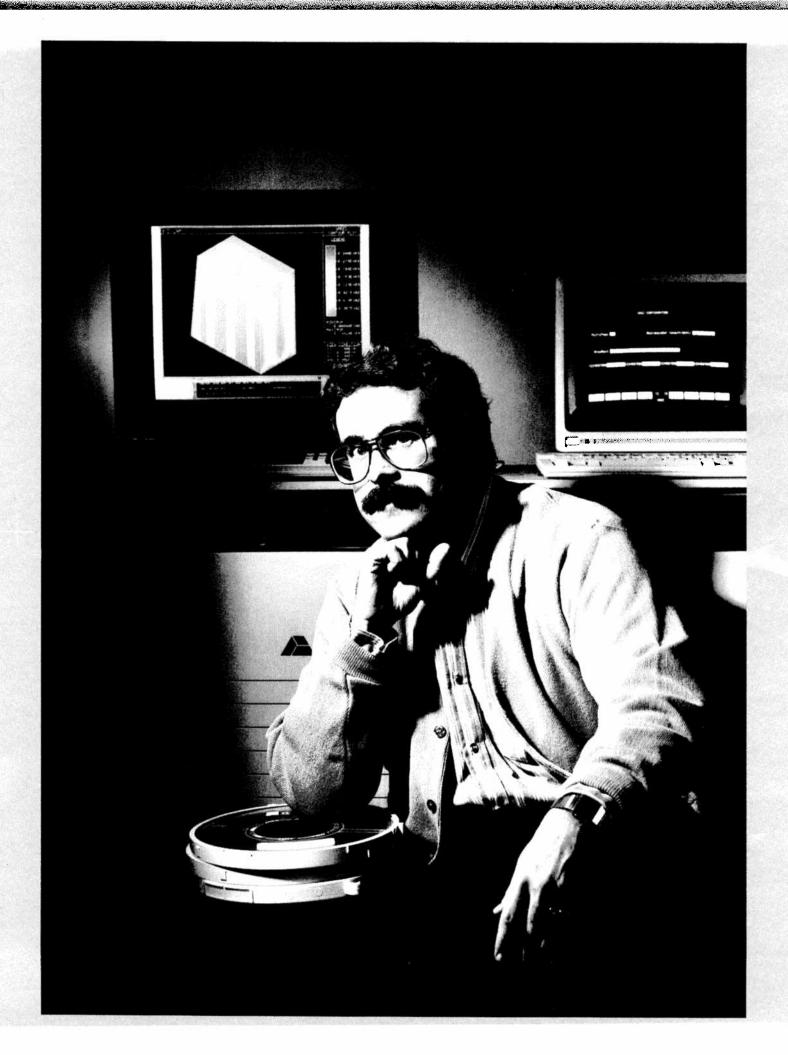
Not the least of the benefits of automation has been the plant's ability to improve product quality while dramatically reducing operating costs, cutting in half, for example, its working capital requirements. Moreover, the plant is now exporting its production to customers with on-time deliveries at 99 percent.

Today, the 260-employee facility, once threatened by competitive forces, produces about one million heavy-duty automobile parts each year and has even added to its heavy truck product base. In addition to valves, the plant is producing anti-lock braking system components. It has also become one of Automotive's showcase operations.

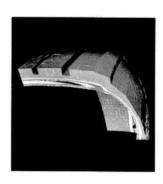


 ${f G}_{
m eneral}$  assembler Liz Skocir, of Bendix Heavy Vehicle Systems, is one of many who helped usher in a new era for the Canadian plant when it replaced outdated production methods with a factory floor that features advanced manufacturing equipment. Once on a production line. Skocir todav is responsible for an automated cell where modulatina valves used in heavy truck braking systems are assembled by hightechnology machinery.





esearcher Steve Sund, of the Math and Simulation Sciences unit of Corporate Research and Technology, has principal responsibilities for modeling one of the Aerospace sector's key manufacturing processes. He is one of more than 30 engineers and scientists involved in the group's quality-related investiaations, all undertaken at the request of various business units.



## Research and Technology: Seeking New Methods

pending \$1.3 billion a year for research, development and engineering (R,D&E) does more than ensure Allied-Signal new products to commercialize. It also leads to more advanced processes that can significantly enhance product quality and shorten the time it takes to bring those products to customers, many of whom help fund various R,D&E projects.

The Math and Simulation Sciences group of Corporate Research and Technology is in the vanguard of that effort. Working with three-dimensional computer-generated mathematical models, these scientists are able to determine the interrelationships among a customer's specifications, a product's design, the process used to manufacture the product and the quality that results, simulating conditions that otherwise might be difficult — if not impossible — to probe experimentally.

In one application of this scientific discipline, researchers in the Morris Township, New Jersey, laboratory are simulating the various process steps used by Aerospace's Bendix Wheels and Brakes Division in South Bend, Indiana, in the manufacture of their landing gear for military and commercial aircraft.

It is expected that a greater understanding of the diverse mechanical and chemical processes will lead to accelerating production while achieving improved quality and uniformity of these highly complex products and their components.

The Aerospace project is one of ten specific quality/productivity assignments that the Math and Simulation Sciences group currently has under way. It is also using expert systems and data bases and other sophisticated measurement methods to help improve the performance of such products as automotive catalysts, industrial fibers and circuit board laminates.

A valuable resource, the Math and Simulation Sciences unit is pushing the frontiers of technology, augmenting the engineering expertise of its internal customers.

## Administrative Areas: **Finding a Better Way**

t Allied-Signal's headquarters in Morris Township, New Jersey, the corporate staff is also pursuing excellence through administrative projects, many with impressive results. Witness the 27-employee Retiree Benefits Administration (RBA) department whose customers are the Company's 55,000 pensioners and 22,000 pension-eligible people who left

the Company before retirement age. Making certain they receive their benefits on time and with accuracy is no simple task, and the group's formally organized Continuous Improvement Process (CIP) teams are always seeking ways to upgrade their services.

For example, there is their new method for issuing some \$25 million in pension checks each month, a method that has speeded up the process and drastically reduced the time it takes to resolve problems,

including replacing lost or stolen checks.

As Allied-Signal acquired companies in the 1980s, it also acquired five different pension payroll systems — each with its own electronic or manual procedures and various outside vendors. All were eventually brought under RBA's central control. Over time, however, managing the diverse systems became very complex, costly and time-consuming.

In the fall of 1989, a nine-member CIP team set out to find a better way, drawing on the talents and expertise of others in such corporate departments as Treasurer's, Controller's, Information Systems and Human Resources, as well as outside financial institutions. From the collaboration came a multi-faceted, step-by-step plan for merging the five payroll systems into one, using a single bank.

Completed in November 1990, the new system is projected to save Allied-Signal over \$400,000 a year. More important, it is offering streamlined service to the thousands of Allied-Signal retirees who can now contact the bank directly with their banking questions.



Payroll supervisor Paula Siciliano, left, of the Retiree Benefits Administration, and Carol Seiter, a senior systems analyst in Corporate Information Systems, were two of the 18 employees involved in the development of the new payroll system for Allied-Signal's 55,000 retirees. The project has improved the process, provided additional services to pensioners and is projected to save the Corporation more than \$400,000 per year.



## What is Quality?



uality can be both perception and reality. It is, nonetheless, ultimately defined by customers who set the standards for products and services according to their needs.

Quality on the part of suppliers is not just meeting those needs but surpassing them, taking that extra step, making that special effort to literally *delight* their customers.

Quality is created through an ongoing process that has a beginning but no end, a journey that has milestones with which to mark progress but no terminus.

Quality is achievable through teamwork and hard work — consistent, persistent hard work by people of like mind who recognize that *good enough* is never good enough.

Quality can be the nucleus of a corporate culture and, when driven by management and embraced by every employee, the single most dynamic force that moves an organization forward.

At Allied-Signal, the quest for quality is real and it is urgent.

It is being advanced by senior executives who recognize that quality and market leadership are inseparable, especially in the highly competitive world markets in which the Company competes.

It is beginning to be integrated in the annual objectives and plans of business managers.

It is becoming an employee focus, helping to create a new sense of mission and involvement among those who have been trained, given the proper tools, empowered to solve problems and inspired by their management to take ownership of their work.

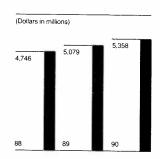
The preceding profiles highlight the Company's commitment to excellence. They represent the beginning of Allied-Signal's long, unending quality journey.

## 1990 Operational Highlights

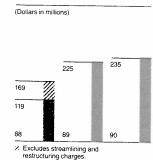
AiResea Avionics Engine G Energy N

AiResearch Group Avionics Group Engine Group Energy Management and Services Group

#### **Net Sales**



#### **Net Income**



- ◆ The Boeing Company awarded Allied-Signal two contracts to supply equipment for its new twin-engine B777 jetliner scheduled for service in 1995. The contracts, with a potential value of some \$1 billion, are for *Garrett* auxiliary power units (APU) and the development of a new system to control the aircraft's air supply and cabin pressure.
- Orders for Allied-Signal's Traffic Alert and Collision Avoidance System (TCAS) continued to mount from several airlines including a number of international carriers such as the Soviet Union's Aeroflot, the Air France group, Iberia, Finnair and Lufthansa. At year end, the Company led the announced TCAS market with commitments for almost 3,400 shipsets, which, with spares, have a total value in excess of \$500 million.
- Airbus Industrie also selected the *Bendix/King* TCAS as standard optional equipment on a number of its models, including the new A340 and A330 commercial transports.
- Northrop Corp. selected a *Garrett* APU for its F-23 Advanced Tactical Fighter (ATF). Northrop and its project partner, McDonnell Douglas, are vying with another team for the ATF production contract which, when awarded, could cover the building of some 1,300 Air Force and Navy jet fighters. The potential value to Allied-Signal is estimated at \$750 million over the life of the program.
- In Europe, Garrett GmbH will take the lead among companies designing and developing the APU for the Eurofighter jet, to be built jointly by Germany, Italy, Spain and the United Kingdom.
- The CFE738 turbofan engine, developed by divisions of Allied-Signal and General Electric, was chosen to power Dassault's Falcon 2000, a new high-performance executive jet.

- Under a long-term contract, valued at some \$140 million, Bendix Field Engineering will provide technical support services for NASA's Space Station Freedom, managing the training centers and operating and maintaining their systems.
- McDonnell Douglas selected Allied-Signal as the sole-source supplier of the main electrical power system for its new family of MD-90 commercial transports to be in service by 1994.
- The T800 engine, developed by divisions of Allied-Signal and General Motors for the U.S. Army's next-generation helicopters, was selected to power a twin-engine Battlefield Lynx by Westland Helicopter Ltd. of the United Kingdom.
- Delta Air Lines selected *Bendix* wheels and brakes for its fleet of Boeing 737-300 aircraft. The airline has ordered, or has on option, 113 of the commercial transports.

#### **Locations of Facilities**

United States: Alabama, Arizona, California, Colorado, Connecticut, District of Columbia, Florida, Georgia, Illinois, Indiana, Kansas, Maryland, Michigan, Missouri, Nevada, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, South Carolina, Texas, Virgin Islands, Virginia, Washington. Australia, Belgium, Brazil, Canada, France, Germany, Greece, Ireland, Japan, Mexico, Singapore, Spain, Switzerland, United Kingdom.

Headquarters: Torrance, California

#### **Principal Products**

Test systems

Auxiliary power units
Turboprop, turbofan and turboshaft engines
Environmental control systems
Engine controls
Flight control systems
Wheels and brakes
Avionics
Cockpit displays
Guidance systems
Land mobile equipment
Torpedo propulsion
Sonars
Actuators
Electric power generating systems

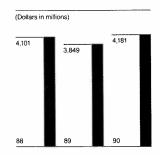
#### **Markets**

Commercial transport and regional airlines General aviation Military aviation Airports Aftermarket parts, maintenance and retrofitting Engineering management Technical support services Underseas/anti-submarine warfare Space Missiles

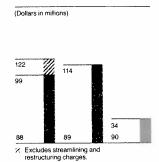
### Bendix Au Bendix He Friction M Allied-Sig Bendix Sa Garrett A Autolite

Bendix Automotive Systems Group Bendix Heavy Vehicle Systems Group Friction Materials Group Allied-Signal Aftermarket Group Bendix Safety Restraints Group Garrett Automotive Group Autolite





#### **Net Income**



- The brake friction materials business of the European automotive manufacturer, Valeo, was acquired. The purchase includes facilities in France and Spain, and with the Company's German subsidiary, Jurid Werke, makes Allied-Signal one of the Continent's most broadly based friction materials suppliers. The acquisition also strengthens Allied-Signal's position in the compact and mid-size vehicle segments and independent aftermarket.
- A new business development office was established in Paris, France, to help guide Allied-Signal Automotive in pursuing new opportunities in Europe, especially in the emerging economies of Eastern Europe.
- The Clarksville, Tennessee, plant began assembling anti-lock braking systems (ABS) for passenger cars/light trucks. The plant is currently being expanded to include a machining center and other areas. This is part of a five-year, \$140 million investment in ABS for the North American market.
- Chrysler introduced its 1991 Dodge Caravan, the first minivan in North America to be equipped with a four-wheel ABS and an air bag restraint system both of them bearing the *Bendix* brand name.
- In the 1990s, Ford's North American-built heavy trucks will feature *Bendix* ABS. Under a sole-supplier agreement, Allied-Signal will provide two ABS versions, a drive-axle system that will help increase vehicle stability and a full-vehicle system that will monitor and control both front and rear wheels.

- Allied-Signal and Morton International's Automotive Safety Products Group formed a joint venture to produce passenger-side air bag modules at an expanded facility in Maryville, Tennessee, where the Company has been assembling driver-side air bags since 1989.
- Mitsubishi Motors of Japan awarded the Company's Jurid Werke subsidiary a contract to supply front disc brake pads for its Sigma model, which is exported to Europe. The order is Mitsubishi's first overseas procurement of brake parts.
- A variable-nozzle *Garrett* turbocharger that boosts performance and fuel efficiency in heavy-truck engines was introduced. Initial production is now under way for four diesel engines of the Nissan Motor Company.

#### **Locations of Facilities**

United States: Alabama, Arizona, California, Florida, Georgia, Illinois, Indiana, Kentucky, Michigan, Missouri, Nevada, New Jersey, New York, North Carolina, Ohio, Oregon, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, Utah. Argentina, Australia, Austria, Belgium, Brazil, Canada, Denmark, Egypt, Finland, France, Germany, India, Ireland, Italy, Japan, Mexico, Netherlands, New Zealand, Norway, Portugal, Singapore, South Korea, Spain, Sweden, Turkey, United Kingdom, Venezuela.

Headquarters: Southfield, Michigan

#### **Principal Products**

Hydraulic and air vehicle braking systems and components
Anti-lock braking systems
Disc pads/segments/brake linings
Occupant protection systems
Air bag systems and components
Spark plugs
Turbochargers for diesel and gas engines
Charge-air intercoolers
Oil, air, fuel and transmission filters

#### **Markets**

Passenger cars Light, medium, heavy trucks Off-highway vehicles Recreational vehicles Railway and marine equipment Aircraft and industrial equipment Aftermarkets of all the above

# Fiber Flue

#### ngineered Materials

Fibers Group
Fluorine Products Group
Plastics and Performance
Materials Group
Norplex Oak

Net Sales\*

(Dollars in millions)

(Dollars in millions)

2,460

2,543

2,539

236

222

245

228

Excludes sales for operations joint ventured in mid-1988 and mid-1990.

\*Excludes streamlining and restructuring charges.

- In response to the Company's formal complaint, the U.S. Trade Representative and Japanese officials negotiated an agreement that requires strict observance of Allied-Signal's Japanese patent rights for *Metglas* amorphous alloys until late 1997, and opens up heretofore closed markets by ordering electric utilities in that country to purchase 32,000 transformers with cores made of *Metglas* alloys.
- The Company announced it would build a plant in Longlaville, France, to manufacture industrial polyester fiber for automotive tires and other applications. The facility will supply European tiremakers who are beginning to switch to all-polyester fiber for tire reinforcement.
- In Florange, France, the automotive catalyst plant was being expanded to better serve European automakers as they strive to meet new pollution control standards beginning with their 1993 models.

- The Company also revealed plans to build a Norplex Oak plant in Chonburi, Thailand, to produce copper-clad laminates used in printed circuit boards. The plant is expected to begin supplying customers in the Pacific Rim by 1992.
- The Aquatech Systems business unit announced an agreement with Ahlstrom Machinery Group of Finland which will market the Company's process for recycling wastes produced during pulp and paper manufacturing. Aquatech Systems invented and developed the process, which uses bipolar membranes to separate sodium sulfate, a waste product of pulp bleaching, into reusable manufacturing chemicals.
- The Environmental Protection Agency approved commercialization of HCFC 141b as a substitute for chlorofluorocarbons in foam and solvent cleaning applications. The product will be produced at a new plant in Geismar, Louisiana, expected to start up in 1992.

- To help improve its competitive position, the high-density polyethylene (HDPE) business in Baton Rouge, Louisiana, became a joint venture operation with Exxon Chemical Company, a division of Exxon Corporation.
- A multi-million-dollar expansion that will more than double the manufacturing capacity of *Spectra* high-performance fibers got under way at Petersburg, Virginia. The expansion provides for market growth of the versatile super-strong fiber used in bullet-resistant products and other applications, and permits development of new *Spectra* variants.
- Production of *Apical* polyimide film, used in electronics, military and aerospace markets, started up at a new plant in Pasadena, Texas. Managed by Allied-Signal, the facility is a joint venture of Allied-Signal and Kanegafuchi Chemical Industry Co. Ltd. of Japan.

#### **Locations of Facilities**

United States: Alabama, Arizona, California, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Louisiana, Michigan, Minnesota, New Jersey, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, South Carolina, Texas, Virginia, Wisconsin. Australia, Belgium, Brazil, Canada, France, Germany, Hong Kong, Italy, Mexico, New Zealand, Singapore, Taiwan, Thailand, United Kingdom.

Headquarters: Morris Township, New Jersey

#### **Principal Products**

Automotive catalysts

Nylon home furnishing fibers
Nylon and polyester industrial fibers
Nylon apparel fibers
Engineered plastics
Low-molecular-weight polyethylene
Films
Hydrofluoric acid
Fluorocarbons
Uranium hexafluoride
Circuit board laminates
Tar products
Amorphous metal alloys
Specialty chemicals

#### Markets

Residential/commercial carpeting
Tires
Apparel
Seat belts
Recreational products
Bullet-resistant helmets and body armor
Refrigeration/solvents
Gas/electric utilities
Food and pharmaceutical packaging
Electronics
Computers
Telecommunications
Aluminum
Automotive
Aerospace

## **Management's Discussion and Analysis**

#### 1990 Compared with 1989

inancial Condition. In 1990, the Company operated in an increasingly difficult economic environment. Fundamentals in the important automotive and housing markets were soft at the start of the year. Results, starting in the second quarter,

were influenced by the beginning of an economic slow-down and oil prices were substantially higher in the latter part of the year. Although the Company focused on near-term performance: cash flow, asset management and expense reduction, it also continued to strengthen its strategic commitment to be a strong global company. Research, development and engineering and capital spending programs were increased. The Company also continued to increase its emphasis on productivity and quality.

At December 31, 1990, the Company had total assets of \$10,456 million, up slightly from total assets of \$10,342 million at December 31, 1989. In 1990, cash flow from operating and investing activities, excluding proceeds from asset sales, was lower by \$170 million compared to last year, a result of increased research, development and engineering spending and higher capital expenditures. In 1991, total cash uses from operating and investing activities, before asset sales, is expected to exceed related cash sources in the range of \$100–\$200 million. The current ratio at year-end 1990 was 1.3x, the same as at December 31, 1989.

The Company has a \$1.2 billion revolving credit agreement (Credit Agreement). At December 31, 1990, the Company had borrowings of \$500 million outstanding under this Credit Agreement. The Credit Agreement also serves as support for the issuance of commercial paper as well as notes, \$292 million of such notes were outstanding at year end, under the Company's Employee Stock Ownership Plans funding program (ESOP Program) for the Company's contributions to employee savings plans. Commercial paper outstanding at year-end 1990 was \$207 million, while at the end of 1989 there was no commercial paper outstanding. Commercial paper borrowing reached a high of \$1,013 million during 1990 at a time when there was no borrowing under the Credit Agreement.

During the year, total debt increased by \$366 million to \$2,748 million, while long-term debt increased by \$148 million to \$2,051 million. The increase of \$366 million in total debt was financed by borrowings under the Credit Agreement, the issuance of commercial paper and higher borrowings, at advantageous rates, under the ESOP Program. The increase in debt, coupled with a decrease in cash and cash equivalents, reflects repurchases of common stock and other major uses of funds as discussed above.

The Company redeemed \$125 million of 11.75 percent Euro Notes in February 1990, and repurchased \$86 million (face amount) of 8 percent Euro Notes in June 1990. The Company's total debt as a percent of capital was 40.4 percent at December 31, 1990, up from 35.7 percent at year-end 1989 and the long-term debt to capital ratio increased from 30.8 percent at year-end 1989 to 33.6 percent at December 31, 1990. See Note 13 of Notes to Financial Statements for details of long-term debt and a discussion of the Credit Agreement.

Under an existing shelf registration filed with the Securities and Exchange Commission, the Company can issue up to \$460 million of additional debt and debt warrant securities. The Company expects to take down the proceeds from this registration from time to time, com-

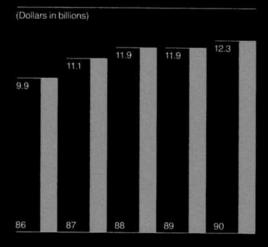
mencing as early as February 1991.

Standard and Poor's has downgraded the Company's long-term debt from A to A – and the Company's commercial paper from A-1 to A-2. Moody's has downgraded the Company's long-term debt from A2 to A3 and the Company's commercial paper from P-1 to P-2. The rating agencies reviewed the Company's debt as a result of delays in the sale of Union Texas Petroleum Holdings, Inc. (Union Texas), the Company's portion of the proceeds of which were to be used to reduce outstanding debt. Fitch Investors Service recently affirmed their ratings on the Company's long-term debt and commercial paper of A and F-1, respectively. Management believes that the reduction in the Company's credit ratings will not have a material impact on the Company's results of operations or financial position.

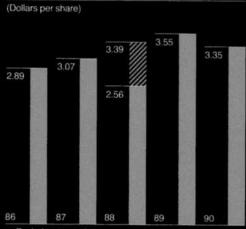
In December 1990, Union Texas disclosed that it had discontinued efforts to sell the entire corporation because no acceptable proposal was received, but that it would continue to pursue the sale of the U.S. domestic businesses and other alternatives to enhance shareholder value. The Company subsequently announced that it would continue to pursue a sale of its interest in Union Texas. Although there is no assurance that any sale by either Union Texas or the Company will occur, depending on the circumstances, a sale may result in a substantial gain to, or receipt of substantial cash by, the Company.

The Company purchased 13.4 million shares of common stock for \$452 million in 1990 and issued 3.1 million shares for employee and shareholder programs. Common stock is repurchased primarily to reduce outstanding shares and to meet the requirements for shares issued under employee benefit plans and a shareholder dividend reinvestment plan. At year end, the Company had 44.4 million shares of common stock held in treasury recorded at \$1,578 million. At December 31, 1990, the Company has remaining authority to repurchase 14.3 million shares of common stock.

#### **Net Sales**

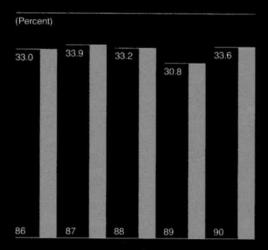


## Earnings from Continuing Operations\*

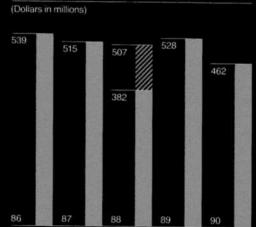


- Excludes streamlining and restructuring charges.
- Excludes nonrecurring items.

#### Long-term Debt as a Percent of Capital

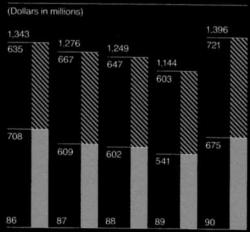


## Income from Continuing Operations\*



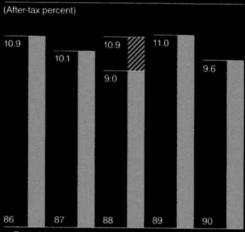
- Excludes streamlining and restructuring charges.
- Excludes nonrecurring items.

#### Capital Expenditures/ R, D & E



- Company-funded R, D & E
- Capital expenditures

#### Return on Investment\*



- Excludes streamlining and restructuring charges.
- \* Excludes nonrecurring items.

During 1990, the Company spent \$675 million for capital expenditures, an increase of \$134 million from the \$541 million spent in 1989. The higher capital spending in 1990 included expenditures for projects that had been delayed during 1989. Spending by the segments and Corporate since 1988 is shown in Note 23 of Notes to Financial Statements. The Company's total capital expenditures in 1991 are currently projected at about \$650 million and are expected to be financed through a combination of internally and externally generated funds. Approximately 63 percent of the projected 1991 expenditures are anticipated to be for expansion and cost reduction, 28 percent for replacement and maintenance and 9 percent for environmental and other projects.

Effective July 1, 1990, the Company contributed its high-density polyethylene (HDPE) business and its partner, Exxon Corporation, contributed cash to a newly formed, equally owned joint venture (HDPE Joint Venture). The Company's HDPE business had net sales of \$450 million in 1989. The Company is accounting for its investment, net of any advances, in the new venture by

the equity method.

esults of Operations. Net sales in 1990 totaled \$12.3 billion, an increase of \$401 million, or 3 percent, compared to last year. The joint venturing of HDPE, effective July 1, 1990, however, had the effect of reducing the sales increase by \$203 million. Excluding the impact of this change, net sales increased \$604 million, or 5 percent, compared to 1989. Of this increase, \$213 million was due to higher sales, mainly of new products, including traffic alert and collision avoidance systems (TCAS), MK50 torpedo, anti-lock braking systems and air bags, \$195 million was due to higher prices while \$196 million was due to foreign exchange rate fluctuations. The \$604 million improvement reflects increases of \$279 and \$332 million for Aerospace and Automotive, respectively. Sales for Engineered Materials remained essentially unchanged. Aerospace had substantially higher deliveries of the Engine Group's original-equipment and retrofit gas turbine engines and auxiliary power units, initial shipments of the Avionics Group's TCAS and increased management and technical services. Sales to the commercial market improved, while contract sales to the U.S. government, as a prime and subcontractor, remained about even with last year, although the percentage of sales to the U.S. government declined slightly. Automotive was favorably impacted by foreign exchange rate fluctuations and had generally higher selling prices and increased sales volumes of anti-lock braking systems and air bags. Lower sales of brakes and safety restraints to the North American automotive manufacturers, however, partly offset these gains. Engineered Materials increased its sales of automotive catalysts and engineered plastics, but these increases were offset by lower sales of chlorofluorocarbons (CFCs).

The Company is a party to lawsuits and claims relating to, and has incurred remedial response and voluntary clean-up costs associated with, environmental matters. Additional lawsuits and claims involving environmental matters are likely to continue to arise from time to time in the future. The Company continually conducts studies to determine the feasibility of various remedial techniques to address environmental matters. Upon completion of such studies, the Company generally is able to record appropriate liabilities for such matters. Some of such studies are expected to be completed in 1991, and others will be completed from time to time thereafter. Although the Company does not currently possess sufficient information to reasonably estimate the amounts of the liabilities to be recorded as a result of such studies, they may be significant to the consolidated results of operations. Remedial response and voluntary cleanup expenditures were \$61 and \$40 million in 1990 and 1989, respectively, and are currently estimated to increase to approximately \$80 million in 1991, more than half of which has been recorded and the remainder of which is expected to be expensed on a current basis. While neither the timing nor the amount of the ultimate costs associated with environmental matters can be determined, management does not expect that those matters will have a material adverse effect on the consolidated financial position of the Company.

See Note 18 of Notes to Financial Statements for a discussion of the Company's commitments and contingencies, including those related to environmental matters.

Income from operations of \$730 million decreased \$216 million, or 23 percent, compared to last year. The income for Aerospace decreased by 3 percent, Automotive decreased by 45 percent and Engineered Materials decreased by 19 percent. The Engineered Materials' decrease included the impact of the joint venturing of HDPE. The losses for Corporate were slightly lower. See the discussion of net income below for information by segment.

In view of the recessionary economic conditions, which are expected to continue to adversely affect many of the Company's markets at least through the first half of the year, and the uncertainties created by the war in the Mideast, the Company is taking special steps to lower costs. One such step has been the institution of a temporary salary freeze applicable to all of the Company's salaried employees and a five percent salary reduction applicable to its senior management. These salary arrangements will be reviewed by the Company periodically during 1991.

The Company believes that, excluding the impact of the Mideast war, defense spending cuts are likely to be significant and will occur over the next three to five years. New military programs in the Aerospace segment could be vulnerable to cancellation and the current production rates of existing programs may be scaled back. The Company believes that, in spite of these changes, it is relatively well positioned to adapt to the emerging business environment. Since 1986, the Aerospace segment's sales to the U.S. government, as a prime and subcontractor, have gradually been declining, while commercial sales have increased. In 1986, the percentage of such sales to the U.S. government was 55 percent of total Aerospace sales; in 1990 this percentage was 42. A growing commercial business is expected to buffer Aerospace against a reduction in defense spending. Moreover, the Aerospace segment is not dependent on any one key defense program or commercial customer. However, the commercial business is, itself, subject to major business cycles and a decline in air transport aircraft deliveries, from their current highs, may also occur. In addition, increased fuel costs have recently reduced aircraft usage and have adversely affected commercial airline spare parts orders.

The Company, as are other government contractors, is subject to government investigations of business practices and compliance with government procurement regulations. Although such regulations provide that a contractor may be suspended or debarred from government contracts under certain circumstances, and the outcome of pending government investigations cannot be determined, management is not presently aware of any such investigation which it expects will have a material adverse effect on the Company.

The Company's Automotive segment is expected to benefit from restructuring and other cost reduction efforts, including a number of manufacturing, quality and spending control programs, especially by the turbocharger business, as well as from a more stable automotive replacement parts market and an improved Brazilian economy. However, the segment is expected to be unfavorably impacted in 1991 by further reductions in new vehicle demand in North America and a slowdown in Europe, and by the highly competitive nature of the automotive industry, as indicated by more stringent requirements relating to quality and pricing as well as the absorption by suppliers, like the Company, of increasing amounts of

new product development costs. The Engineered Materials segment is a major supplier of CFCs, which are covered by the Montreal Protocol (Protocol). The Protocol regulates worldwide CFC production and consumption. In 1990, the Protocol and U.S. Clean Air Act amendments accelerated a previous production phasedown schedule and now require a 100 percent elimination of fully halogenated CFC production by the year 2000. The Company is aggressively pursuing development of environmentally acceptable fluorocarbons to replace the current CFC product line and expects to spend approximately \$250 million in research and development and fixed capital over a 10 year period ending in 1998 to achieve this goal. Also, effective January 1, 1990, Congress imposed a tax (the Ozone Depletion Unit fee) on the sale of CFCs which approximately doubled the cost of CFCs, for certain applications, to customers. As a consequence, conservation and substitution have resulted in lower CFC demand, which is expected to lead to substantially lower income. Also, favorable HDPE profitability in 1990, in part resulting from an explosion of a competitor's plant in October 1989, is expected to be significantly reduced in 1991 because of a 20 percent increase in announced industry capacity that will soon become operational. 1991 profitability will also be impacted by the joint venturing of HDPE in July 1990, in which the Company has a 50

percent interest.
In December 1990, the Financial Accounting Standards Board (FASB) issued Statement No. 106 (FASB No. 106)
— "Employers' Accounting for Postretirement Benefits Other Than Pensions" which requires the Company to change the timing of recognizing the cost of the post-

retirement benefits provided to employees from the current cash to the accrual method of accounting by 1993. Currently, the Company is unable to quantify the impact of FASB No. 106 on its results of operations and financial position, although FASB No. 106 is expected to have a significant adverse effect in the year of adoption. Such impact will depend on medical inflation rates and the level of benefits provided by the Company's benefit plans in the future.

Other income/expense of \$49 million decreased \$17 million, or 26 percent, mainly due to reduced interest income, partly offset by a gain on the repurchase of the Euro Notes.

Interest and other financial charges of \$278 million decreased \$38 million, or 12 percent, mainly due to lower interest on taxes, debentures and foreign debt, partly offset by increased interest on higher levels of commercial paper outstanding as well as revolving credit borrowings.

The effective tax rate for 1990 was 27.9 percent, 6.7 percentage points lower than last year, due primarily to a lower effective tax rate related to foreign operations as well as the benefit of tax incentives for U.S. exports. See Note 6 of Notes to Financial Statements for further information on income taxes. In December 1987, the FASB issued Statement No. 96 (FASB No. 96) -- "Accounting for Income Taxes" which would have required the Company to change its method of accounting for income taxes in 1989. Subsequently, the FASB issued additional statements which deferred the effective date of FASB No. 96 from 1989 to the first quarter of 1992. Due, in part, to the uncertainty of the FASB's deliberation on possible amendments, the Company has not yet adopted FASB No. 96. On an ongoing basis, management believes that FASB No. 96 should not have a significant impact on the Company's financial statements. The Company cannot now determine the impact of FASB No. 96 in the year of adoption because that impact will vary depending on the tax status of the Company at that time, as well as the timing elected by the Company of either a prospective or retroactive application, a decision which has not yet been made. Moreover, such impact will vary based on the nature of any amendments to FASB No. 96. In general, the adoption of FASB No. 96 should result in a moderate reduction in equity, a portion of which will be offset by lower tax expense in the future, primarily because of the required change in the method of accounting for deferred taxes for acquisitions.

Equity in income of affiliated companies of \$101 million increased \$28 million, or 38 percent, due mainly to the inclusion of the results of the HDPE Joint Venture in the last six months of 1990 and higher earnings from the UOP joint venture. A partial offset was the absence of the 1989 one-time gain of \$23 million, or \$.16 a share, from Union Texas' business interruption insurance settlement. Total earnings from Union Texas, including dividends on preferred stock, were \$59 and \$80 million in 1990 and 1989, respectively.

Net income for 1990 was \$462 million, \$66 million lower than 1989, and earnings per share for 1990 of \$3.35 decreased by \$.20 a share. Included in the 1989 amounts was the gain of \$23 million, or \$.16 a share, from Union Texas' business interruption insurance settlement. Excluding that one-time item, 1990 net income was \$43 million lower than 1989 because of a slight improvement for Aerospace, a small decrease for Engineered Materials

and substantially lower income for Automotive as discussed below. In addition, net income benefited from a lower effective tax rate of 27.9 percent. Earnings per share, which was about even with last year, benefited from a 7 percent reduction in average shares outstanding.

The following provides sales and net income by segment:

(Dollars in millions)

| Aerospace  | 1990    | 1989    | Variance |
|------------|---------|---------|----------|
| Sales      | \$5,358 | \$5,079 | \$279    |
| Net income | 235     | 225     | 10       |

Aerospace's sales increased 5 percent and net income rose 4 percent over last year. Earnings improved based on increased deliveries of the Engine Division's originalequipment and retrofit gas turbine engines, initial shipments of the Avionics Group's TCAS and higher sales of products in the Energy Management and Services Group related to anti-submarine warfare and aircraft wheels and brakes. These gains were partly offset by lower operating earnings as well as increased development and start-up costs for the Auxiliary Power Division. In addition, the segment incurred higher development costs for new engines and wheel and brake programs.

| Automotive | 1990    | 1989    | Variance |
|------------|---------|---------|----------|
| Sales      | \$4,181 | \$3,849 | \$332    |
| Net income | 34      | 114     | (80)     |

The Automotive segment had a sales increase of 9 percent, but net income was down 70 percent compared to last year. Income was significantly lower because of reduced volumes and margins in the brake and safety restraint businesses, reflecting continued weakness in the original-equipment market, lower margins for the restructured North American turbocharger unit and product launch and development costs for anti-lock braking systems. The decrease also reflects unfavorable results from operations in Brazil, where economic disruptions severely impacted second quarter results. Autolite's spark plug business continued to show improvement.

| Engineered Materials | 1990    | 1989    | Variance |
|----------------------|---------|---------|----------|
| Sales                | \$2,786 | \$2,993 | \$(207)  |
| Net income           | 228     | 245     | (17)     |

Engineered Materials' sales were about even with last year, after excluding \$203 million reflecting the joint venturing of the HDPE business. Net income decreased 7 percent compared to last year mainly because of soft demand, intense price competition and increased costs for petroleum-based raw materials. Lower earnings for industrial, intermediate and apparel fibers, fluorine products, Norplex Oak copper foil laminates and engineered plastics were partly offset by improved earnings for HDPE, the UOP joint venture and A-C polyethylene resins.

The impact of inflation on the Company has been substantially mitigated by the Company's significant capital expenditure program and by valuing the Company's major acquisitions at current costs. In addition, inflation has generally been low and the Company has been generally able to offset any impact of inflation through productivity increases, cost reduction programs, favorable inventory turnover rates and price increases.

#### **1989 Compared with 1988**

inancial Condition. In 1989, the Company achieved solid improvements over the previous year. Despite a softening economy, net income, cash flow and working capital performance all showed considerable progress. The Company is controlling its costs while continuing to invest in its businesses. To strengthen its competitive standing, the Company continued to expand internationally and by introducing a number of technically advanced products.

At December 31, 1989, the Company had total assets of \$10,342 million, up from total assets of \$10,069 million at December 31, 1988. Major uses of funds during 1989 included capital expenditures and spending for research, development and engineering programs. In 1989, cash flow from operating and investing activities, excluding proceeds from asset sales, improved by \$435 million compared to last year, a result of higher net income, favorable working capital utilization, delayed capital expenditures and increased deferred income taxes. The current ratio at year-end 1989 was 1.3x, the same as at December 31, 1988.

The Company has access to additional cash through a \$1.2 billion Credit Agreement. The Credit Agreement serves as support for the issuance of commercial paper as well as notes under the ESOP Program for the Company's contributions to employee savings plans. Although there was no commercial paper outstanding at year-end 1989 or 1988, commercial paper borrowing reached a high of \$161 million during 1989.

During the year, total debt increased by \$78 million to \$2,382 million, although long-term debt decreased by \$141 million to \$1,903 million. Current maturities of longterm debt increased \$180 million, with a corresponding decrease in long-term debt, mainly reflecting the Company's decision to call \$125 million of 11.75 percent Euro Notes (maturing on February 20, 1992) on February 20, 1990. The transaction will be funded through cash from operations and commercial paper borrowing. The increase of \$78 million in total debt compared to 1988 was mainly due to higher borrowings at advantageous rates under the ESOP Program. The Company's total debt as a percent of capital was 35.7 percent at December 31, 1989, compared to 35.9 percent at December 31, 1988, and the long-term debt to capital ratio decreased from 33.2 percent at year-end 1988 to 30.8 percent at December 31, 1989. See Note 13 of Notes to Financial Statements for details of long-term debt and a discussion of the Credit Agreement.

The Company purchased 5.8 million shares of its common stock for \$208 million in 1989. Common stock is repurchased primarily to reduce outstanding shares and to meet the requirements for shares issued under employee

benefit plans and a shareholder dividend reinvestment plan. At year end, the Company had 34.1 million shares of common stock held in treasury recorded at \$1,266 million. In January 1990, the Board of Directors authorized a new common stock repurchase program of 25 million shares, of which the Company has remaining authority to repurchase approximately 25 million shares.

During 1989, the Company spent \$541 million for capital expenditures, a decrease of \$61 million from the \$602 million spent in 1988. The lower capital spending in 1989 was the result of delays on various current projects. Spending by the segments and Corporate since 1988 is shown in Note 23 of Notes to Financial Statements.

esults of Operations. Net sales in 1989 totaled \$11.9 billion, up \$33 million compared to last year. Included in the 1988 amount were aggregate sales of \$554 million for businesses sold or joint ventured. Excluding the impact of these businesses, 1989 sales increased \$587 million over 1988. Of this increase, \$425 million was due to volume and \$270 million was due to price, partly offset by a decrease of \$108 million resulting from foreign exchange rate fluctuations. The \$587 million improvement in sales reflects increases of \$487, \$83 and \$25 million for Aerospace, Engineered Materials and Automotive, respectively. Aerospace had significantly higher sales volumes to the commercial market, but slightly lower sales, as a prime and subcontractor, to the U.S. government. Engineered Materials had generally higher selling prices, but lower sales volumes of its circuit board laminates. The Automotive segment had higher selling prices, partly offset by foreign exchange rate fluctuations. Sales volumes for Automotive remained unchanged.

Selling, general and administrative expenses decreased \$92 million, or 6 percent. As a percentage of sales, such expenses decreased from 12.0 percent in 1988 to 11.2 percent in 1989. The savings were a result of the Company's 1988 streamlining program and the disposition of businesses, partly offset by normal wage and cost increases.

Streamlining and restructuring charges for 1988 are discussed in Note 2 of Notes to Financial Statements.

Remedial response and voluntary cleanup expenditures were \$40 and \$24 million in 1989 and 1988, respectively.

Income from operations of \$946 million in 1989 increased by \$265 million, or 39 percent, compared to last year. The increase reflects the absence of last year's charge of \$197 million for streamlining and restructuring, as well as significantly improved results by Aerospace and a smaller benefit from lower costs at Corporate, partly offset by lower earnings for the Engineered Materials segment (mainly reflecting the joint venturing of

UOP which was included in equity income). The Automotive segment's income from operations was approximately the same as last year. See the discussion of net income below for information by segment.

Since 1986, the percentage of Aerospace segment's sales to the U.S. government has been declining, while commercial sales have increased. In 1986, sales to the U.S. government were 55 percent of total Aerospace sales; in 1989, this percentage was 44 percent.

One of Engineered Materials' principal HDPE competitors experienced a major plant explosion in October 1989. The Company believes that there could be a short-term favorable impact on HDPE profitability as a result of the temporary dislocation of industry capacity.

Other income/expense decreased \$39 million, or 37 percent, in 1989 reflecting the absence of last year's \$61 million (after-tax \$36 million, or \$.24 a share) gain on the sale of the Company's 14 percent interest in Akebono Brake Industry Company Ltd. (Akebono) investment, partly offset by higher interest income and a reduction in foreign exchange losses.

The nonrecurring gain in 1988 is discussed in Note 4 of Notes to Financial Statements.

The effective tax rate for 1989 was 34.6 percent, 6.8 percentage points higher than last year mainly due to a lower benefit in 1989 from rate and basis adjustments relating to disposed operations. See Note 6 of Notes to Financial Statements for further information on income taxes.

Equity in income of affiliated companies increased \$67 million. The improvement reflects higher income from the UOP joint venture, as well as improved earnings from the Company's investment in Union Texas relating to a one-time gain of \$23 million, or \$.16 a share, from Union Texas' business interruption insurance settlement. The UOP joint venture, which combined the Company's process technology business and the catalyst business of Union Carbide Corporation, has been accounted for by the equity method since May 1, 1988. Total earnings from Union Texas, including dividends on preferred stock, were \$80 and \$57 million in 1989 and 1988, respectively.

Net income for 1989 was \$528 million, \$65 million higher than 1988, and earnings per share for 1989 of \$3.55 improved by \$.45 a share. Included in the 1989 amounts was the gain of \$23 million, or \$.16 a share, from Union Texas' business interruption insurance settlement. Included in 1988 were the streamlining and restructuring charges of \$125 million, or \$.83 a share; a gain of \$36 million, or \$.24 a share, from the sale of the investment in Akebono; and a gain of \$81 million, or \$.54 a share, from the sale of the automotive electronics unit and the formation of a joint venture. Excluding the above one-time items, 1989 net income was \$34 million higher than 1988 and earnings per share improved by \$.23 because of substantially improved operations for Aerospace and a smaller increase for Engineered Materials, partly offset by lower income for Automotive as discussed below. In addition, 1988 benefited from a low effective tax rate of 27.8 percent.

The following provides sales and net income by segment:

(Dollars in millions)

| Aerospace  | 1989    | 1988    | Variance |
|------------|---------|---------|----------|
| Sales      | \$5,079 | \$4,746 | \$333    |
| Net income | 225     | 119     | 106      |

Aerospace's sales increased \$487 million, after excluding sales associated with several small disposed businesses during this time period. Earnings improved because of the absence of one-time streamlining and restructuring charges recorded in 1988 of \$50 million and because of higher sales of engines and auxiliary power units, including aftermarket, avionics test equipment, secure communications, target detection devices, general aviation and air transport avionics, electronics and pneumatic and environmental controls. Cost reduction efforts also contributed to improved earnings. Development spending by Aerospace on new engines, engine controls and wheels and brakes remained high.

| Automotive | 1989    | 1988    | Variance |
|------------|---------|---------|----------|
| Sales      | \$3,849 | \$4,101 | \$(252)  |
| Net income | 114     | 99      | 15       |

The Automotive segment had a sales increase of \$25 million, after excluding the sales of \$277 million of the automotive electronics business which was disposed of in 1988. Earnings were higher because of the absence in 1989 of both the one-time streamlining and restructuring charges recorded in 1988 of \$23 million and operating losses of \$20 million from the automotive electronics business. However, earnings, excluding these items, were lower than last year because of reduced worldwide demand for higher margin automotive replacement parts, increased raw material costs, increased investment for anti-lock braking systems and lower sales of occupant protection systems as well as unfavorable foreign exchange rate fluctuations. Autolite's spark plug business had higher aftermarket sales and margins.

| Engineered Materials | 1989    | 1988    | Variance |
|----------------------|---------|---------|----------|
| Sales                | \$2,993 | \$3,033 | \$(40)   |
| Net income           | 245     | 222     | 23       |

Engineered Materials' sales increased \$83 million, after excluding the impact of joint venturing the UOP process technology business which had 1988 sales of \$123 million. Earnings improved because of the absence of the one-time streamlining and restructuring charges recorded in 1988 of \$14 million and because of higher sales of Fluorine products, partly offset by higher raw material costs and lower prices for HDPE and Engineered Plastics, as well as higher raw material costs and lower volumes in the Fibers business.

## Report of Independent Accountants

4 Headquarters Plaza North Morristown, NJ 07962

#### Price Waterhouse



January 25, 1991

To the Shareholders and Directors of Allied-Signal Inc.

In our opinion, the accompanying consolidated balance sheet and the related consolidated statements of income and retained earnings and of cash flows present fairly, in all material respects, the financial position of Allied-Signal Inc. and its consolidated subsidiaries at December 31, 1990 and 1989, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 1990, in conformity with generally accepted accounting principles. These financial statements are the responsibility of the Company's management; our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits of these statements in accordance with generally accepted auditing standards which require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for the opinion expressed above.

Price Waterhouse

(Dollars in millions except per share amounts)

|               |  | Years ended December 31 |                          |                            |             | mber 31                    |
|---------------|--|-------------------------|--------------------------|----------------------------|-------------|----------------------------|
|               |  |                         | 1990                     | 1989                       | 9           | 1988                       |
| -             | Net sales  | \$1                     | 2,343                    | \$11,945                   | 2           | \$11,909                   |
| ;             | Cost of goods sold<br>Selling, general and administrative expenses<br>Streamlining and restructuring         | 1                       | 0,226<br>1,387           | 9,663<br>1,333             |             | 9,606<br>1,425<br>197      |
| ,             | Total costs and expenses   | 1                       | 1,613                    | 10,996                     | 3           | 11,228                     |
| <b>(</b><br>] | Income from operations<br>Other income/expense<br>Nonrecurring items<br>Interest and other financial charges |                         | 730<br>49<br>—<br>(278)  | 946<br>66<br>—<br>(316     | 6<br>-      | 681<br>105<br>165<br>(318) |
| ,<br>1<br>-   | Income before taxes on income<br>Taxes on income<br>Equity in income of affiliated companies<br>Net income   | \$                      | 501<br>140<br>101<br>462 | 696<br>241<br>73<br>\$ 528 | 3<br>1<br>3 | 633<br>176<br>6<br>8 463   |
|               | Earnings per share of common stock*  | \$                      | 3.35                     | \$ 3.58                    | <b>5</b>    | \$ 3.10                    |

<sup>\*</sup>Earnings per share of common stock are based upon the following weighted average number of shares: 1990, 138,242,467 shares; 1989, 148,751,135 shares; and 1988, 149,319,204 shares. No dilution results from outstanding common stock equivalents.

## **Consolidated Statement of Retained Earnings**

(Dollars in millions except per share amounts)

|   | Years ended December 31 |          |          |
|---|-------------------------|----------|----------|
|   | 1990                    | 1989     | 1988     |
| Balance at beginning of year              | \$ 1,923                | \$ 1,671 | \$ 1,503 |
| Net income                                | 462                     | 528      | 463      |
| Other                                     | (24)                    | (8)      | (26)     |
| Common stock dividends (\$1.80 per share) | (248)                   | (268)    | (269)    |
| Balance at end of year                    | \$ 2,113                | \$ 1,923 | \$ 1,671 |

The "Notes to Financial Statements" are an integral part of these statements.

(Dollars in millions)

|                                       |  | December 31 |               |
|---------------------------------------|--|-------------|---------------|
|                                       |  | 1990        | 1989(a        |
| Assets                                | Current assets:  |             |               |
|                                       | Cash and cash equivalents  | \$ 382      | \$ 525        |
|                                       | Accounts and notes receivable  | 1,452       | 1,443         |
|                                       | Inventories  | 2,168       | 2,063         |
|                                       | Other current assets   | 314         | 320           |
|                                       | Total current assets   | 4,316       | 4,351         |
|                                       | Investments and long-term receivables  | 1,139       | 996           |
|                                       | Property, plant and equipment — net  | 3,584       | 3,321         |
|                                       | Cost in excess of net assets of acquired companies — net   | 1,107       | 1,318         |
|                                       | Other assets   | 310         | 356           |
|                                       | Total assets   | \$10,456    | \$10,342      |
| Liabilities                           | Current liabilities:   |             |               |
|                                       | Accounts payable   | \$ 1,256    | \$ 1,132      |
|                                       | Short-term borrowings  | 564         | 259           |
|                                       | Current maturities of long-term debt   | 133         | 220           |
|                                       | Accrued liabilities  | 1,471       | 1,675         |
|                                       | Total current liabilities  | 3,424       | 3,286         |
|                                       | Long-term debt   | 2,051       | 1,903         |
|                                       | Deferred income taxes  | 673         | 873           |
|                                       | Other liabilities  | 928         | 868           |
| Shareholders' equity                  | Capital — common stock — Authorized 500,000,000 shares (par value \$1 per share); issued: 1990 — 179,072,010 shares; |             |               |
| · · · · · · · · · · · · · · · · · · · | 1989 — 179,061,813 shares  | 179         | 179           |
|                                       | — additional paid-in capital   | 2,568       | 2,568         |
|                                       | Common stock held in treasury, at cost: 1990 — 44,384,339  | _,000       | <b>2</b> ,555 |
|                                       | shares; 1989 — 34,059,172 shares   | (1,578)     | (1,266)       |
|                                       | Cumulative foreign exchange translation adjustment   | 98          | 8             |
|                                       | Retained earnings  | 2,113       | 1,923         |
|                                       | Total shareholders' equity   | 3,380       | 3,412         |
|                                       | Total liabilities and shareholders' equity   | \$10,456    | \$10,342      |

The "Notes to Financial Statements" are an integral part of this statement.

<sup>(</sup>a) Reclassified for comparative purposes.

## **Consolidated Statement of Cash Flows**

Allied-Signal Inc.

(Dollars in millions)

|   |   | Years ended December 3                      |                 |   |
|---|---|---|-----------------|---|
|   |   | 1990  | 1989(a)         | ) 1988(a                                  |
| Cash flows from operating activities    | Net income Adjustments to reconcile net income to net cash flows from operating activities:                         | \$ 462                                      | \$ 528          | \$ 463                                    |
|   | Depreciation and amortization (including goodwill) Deferred taxes   | 460<br>17                                   | 424<br>69       | 416<br>(57)                               |
|   | Liabilities extinguished by the use of common stock<br>Decrease (increase) in accounts and notes receivable         | 85<br>101                                   | 83<br>37        | 87<br>(124)                               |
|   | (Increase) in inventories<br>Decrease (increase) in other current assets  | (53)<br>7                                   | (14) $(132)$    | (124) $(126)$ $33$                        |
|   | Increase in accounts payable<br>(Decrease) in accrued liabilities<br>Gain on sales of businesses (1989/1988) and    | 96<br>(238)                                 | 41<br>(88)      | 116<br>(146)                              |
|   | investments (1988) Other  | <del>-</del> 65                             | (10)<br>93      | (158)<br>164                              |
|   | Net cash flow provided by operating activities  | 1,002                                       | 1,031           | 668                                       |
| Cash flows from<br>investing activities | Expenditures for property, plant and equipment Cash paid for acquisitions, net of cash acquired                     | (675)                                       | (541)<br>(31)   | (602)                                     |
| -                                       | Proceeds from disposals of property, plant and equipment<br>Proceeds from sales of businesses (1989/1988) and       | 13  | 55              | 32  |
|   | investments (1988) Decrease (increase) in investments   | (66)  | 64<br>(70)      | $\begin{array}{c} 359 \\ 142 \end{array}$ |
|   | Net cash flow (used for) investing activities   | (728)                                       | (523)           | (69)                                      |
| Cash flows from<br>financing activities | Short-term borrowings (commercial paper/credit agreement)<br>Net increase (decrease) in other short-term borrowings | 457<br>(191)                                | <br>37          | 36  |
|   | Proceeds from issuance of common stock<br>Proceeds of long-term debt  | 12<br>359                                   | 14<br>107       | 11<br>113                                 |
|   | Repurchases of long-term debt (including current maturities) Repurchases of common stock                            | (345)<br>(461)                              | $(62) \\ (208)$ | (259) $(183)$                             |
|   | Cash dividends on common stock  | (248)                                       | (268)           | (269)                                     |
|   | Net cash flow (used for) financing activities   | (417)                                       | (380)           | (551)                                     |
|   | Net increase (decrease) in cash and cash equivalents<br>Cash and cash equivalents at beginning of year              | $\begin{array}{c} (143) \\ 525 \end{array}$ | 128<br>397      | 48<br>349                                 |
|   | Cash and cash equivalents at end of year  | \$ 382                                      | \$ 525          | \$ 397                                    |

The "Notes to Financial Statements" are an integral part of this statement.

(a) Reclassified for comparative purposes.

(Dollars in millions except per share amounts)

#### **Note 1. Summary of Significant Accounting Policies**

**Consolidated financial statements** include the accounts of Allied-Signal Inc. and majority-owned subsidiaries.

Investments and long-term receivables are carried at the lower of cost or market, and in the case of affiliates over which significant influence is exercised, using the equity method of accounting.

**Inventories** are valued at the lower of cost or market using the last-in, first-out (LIFO) method for certain qualifying domestic inventories and the first-in, first-out (FIFO) or the average cost method for other inventories.

**Recognition of contract revenues** primarily relates to Aerospace operations. Under fixed-price contracts, sales and related costs are recorded as deliveries are made. Sales and related costs under cost-reimbursable contracts are recorded as costs are incurred. Anticipated future losses on contracts are charged to income when identified. Contracts which are part of a program are evaluated on an overall program basis.

**Property, plant and equipment** are carried at cost and are generally depreciated using estimated service lives, which range from 3 to 40 years. For the financial statements, depreciation is computed principally on the straightline method.

Cost in excess of net assets of acquired companies

is being amortized on a straight-line basis over 25- or 40-year periods. The cumulative amount of goodwill amortized at December 31, 1990, and December 31, 1989. is \$224 and \$191 million, respectively. In 1990 the Company reduced acquired goodwill by \$203 million as a result of the recognition of tax benefits associated with prior year acquisitions.

**Environmental** expenditures that relate to current operations are expensed or capitalized as appropriate. Expenditures that relate to an existing condition caused by past operations, and which do not contribute to current or future revenue generation, are expensed. Liabilities are recorded when environmental assessments and/or remedial efforts are probable, and the costs can be reasonably estimated. Generally, the timing of these accruals coincides with completion of a feasibility study or the Company's commitment to a formal plan of action.

Interest rate swap, foreign currency forward exchange and foreign currency swap agreements are entered into to manage the Company's exposure to changes in interest and foreign currency exchange rates.

 Changes in the amount to be received or paid under interest rate swap agreements are recognized in Interest and Other Financial Charges.

• Changes in the market value of foreign currency forward exchange and foreign currency swap contracts are recognized in Other Income/Expense or Cumulative Foreign Exchange Translation Adjustment, as appropriate, when foreign currency exchange rates fluctuate. Such changes mitigate the impact of foreign exchange fluctuations on foreign currency denominated transactions, assets and liabilities.

**Income taxes** are based on pretax financial statement income with an appropriate deferred tax provision in accordance with Accounting Principles Board Opinion No. 11 to provide for the tax effect of timing differences between pretax financial statement income and taxable income per the tax return. Deferred income taxes have not been provided on approximately \$200 million of undistributed earnings of foreign affiliated companies, which are considered to be permanently reinvested. Any U.S. taxes payable on foreign earnings which may be remitted, however, will be substantially offset by foreign tax credits.

#### Note 2. Streamlining and Restructuring

The 1988 provision reflects a pretax charge of \$197 million (after-tax \$125 million, or \$.83 a share) covering costs for the streamlining and rationalization of facilities of the Company and environmental expenditures. The provision covers the expenditures for a cost-cutting program, which includes the elimination of some 1,500 jobs and the relocation and consolidation of facilities and functions as well as environmental expenditures for shutdown chemical facilities.

#### Note 3. Other Income/Expense

| Years ended December 31               | 1990  | 1989  | 1988  |
|---------------------------------------|-------|-------|-------|
| Interest income and other             | \$ 12 | \$ 38 | \$ 32 |
| Repurchase of debentures              | 11    | (1)   | (4)   |
| Gain on sale of investment (1)        |       | -     | 61    |
| Dividends from oil and gas investment | 41    | 41    | 41    |
| Foreign exchange (loss)               | (15)  | (12)  | (25)  |
|                                       | \$ 49 | \$ 66 | \$105 |

(1) In 1988, on an after-tax basis, the gain on the sale of the Company's investment in Akebono Brake Industry Company Ltd. was \$36 million, or \$.24 a share.

At December 31, 1990, the Company had forward exchange contracts to purchase and sell foreign currencies aggregating \$281 and \$682 million, respectively, based upon current spot rates. Such contracts mature through 1994.

#### Note 4. Nonrecurring Items

The 1988 nonrecurring items of \$165 million (after-tax \$81 million, or \$.54 a share) reflect the gains from the sale of the automotive electronics business and from the formation of a joint venture between the Company and Union Carbide Corporation (Union Carbide).

#### Note 5. Interest and Other Financial Charges

| Years ended December 31   | 1990          | 1989          | 1988          |
|---|---------------|---------------|---------------|
| Total interest and other financial charges<br>Less — Capitalized interest | \$300<br>(22) | \$341<br>(25) | \$338<br>(20) |
|   | \$278         | \$316         | \$318         |

At December 31, 1990, the Company had interest rate swap agreements, maturing through 1999, having a total notional principal of \$341 million. These agreements have effectively changed the interest rates on \$265 million of fixed rate debt (average 9.79 percent) to London Interbank Offered Rate (LIBOR) based floating rate (average 8.80 percent) and \$76 million of LIBOR based floating rate debt (average 7.34 percent) to fixed rate debt (average 8.18 percent).

#### Note 6. Taxes on Income

#### Income before taxes on income

| Years ended December 31 | 1990  | 1989  | 1988  |
|-------------------------|-------|-------|-------|
| Continuing operations   | \$501 | \$696 | \$633 |
| Discontinued operations | _     |       | (35)  |
| Equity income           | 101   | 73    | 6     |
|                         | \$602 | \$769 | \$604 |
| Years ended December 31 | 1990  | 1989  | 1988  |
| United States:          |       |       |       |
| Continuing operations   | \$451 | \$536 | \$418 |
| Discontinued operations |       | _     | (35)  |
| Foreign                 | 151   | 233   | 221   |
|                         | \$602 | \$769 | \$604 |

#### **Taxes on income**

| Years ended December 31   | 1990                | 1989     | 1988     |
|---|---------------------|----------|----------|
| Continuing operations   | \$140               | \$241    | \$176    |
| Discontinued operations   | —                   | ΨΔ11     | (35)     |
|   | \$140               | \$241    | \$141    |
|   |                     |          |          |
| Years ended December 31   | 1990                | 1989     | 1988     |
| United States:  |                     |          |          |
| Continuing operations   | \$103               | \$161    | \$ 89    |
| Discontinued operations Foreign   | <del>_</del>        |          | (35)     |
| roteign   | 37                  | 80       | 87       |
|   | \$140               | \$241    | \$141    |
| Years ended December 31   | 1990                | 1989     | 1988     |
| Taxes on income consist of:   |                     |          |          |
| Current:  |                     |          |          |
| United States   | \$ 52               | \$ 78    | \$103    |
| State<br>Foreign  | 17                  | 17       | 13       |
| Poreign   | 123                 | 77       | 82       |
| D. C 1.   | 123                 | 172      | 198      |
| Deferred:<br>United States  | 15                  | 33       | (00)     |
| State   | 19                  | 33       | (92)     |
| Foreign   | (17)                | 3        | 5        |
|   | 17                  | 69       | (57)     |
|   | \$140               | \$241    | \$141    |
|   |                     |          |          |
| Years ended December 31   | 1990                | 1989     | 1988     |
| The principal items accounting for the differ-  |                     |          |          |
| ence in taxes on income computed at the U.S. statutory rate and as recorded on an overall |                     |          |          |
| basis are as follows:<br>Statutory U.S. federal income tax rate                           | 34.0%               | 34.0%    | 0.4.0//  |
| Taxes on foreign earnings over (under) U.S. tax   | 34.0%               | 34.0%    | 34.0%    |
| rate  | (7.8)               | 1.6      | 1.6      |
| Rate and basis adjustment on dispositions   | (3.4)               | (6.7)    | (13.8)   |
| Nondeductible amortization and depreciation   | 3.7                 | 2.9      | 4.5      |
| State income taxes  | 4.3                 | 4.7      | 4.7      |
| Tax benefits of Foreign Sales Corporation   | (4.5)               | (1.5)    | (1.7)    |
| Dividends received deduction<br>Tax on partnership equity income                          | $\frac{(2.2)}{4.8}$ | (1.6)    | (1.8)    |
| All other items – net   | (1.0)               | .6<br>.6 | .3       |
| Effective tax rate for continuing operations  | 27.9                | 34.6     | ${27.8}$ |
| Equity income and discontinued operations   | (4.6)               | (3.3)    | (4.5)    |
| · · · · · · · · · · · · · · · · · · ·   | 23.3%               | 31.3%    |          |
|   | 23.3%               | 31.3%    | 23.3%    |

At December 31, 1990, the Company had \$32 million of general business tax credits and \$31 million of alternative minimum tax credit carryforwards available for offset against future income tax payments on a tax return basis. The general business tax credit carryforwards are available to reduce income tax payments through the year 2004. The alternative minimum tax credit carryforward is available to reduce future tax payments for an indefinite period of time.

| Years ended December 31                        | 1990        | 1989  | 1988    |
|--|-------------|-------|---------|
| The principal items in the deferred tax provi- |             |       |         |
| sion are as follows:                           |             |       |         |
| Accelerated depreciation                       | \$ 30       | \$ 35 | \$ 63   |
| Tax credits                                    | (13)        | 14    | (15)    |
| Discontinued operations, nonrecurring items    |             |       |         |
| and acquisitions                               | (13)        | (30)  | (11)    |
| Installment sales                              | *****       | (5)   | (26)    |
| Pension and savings plans                      | <b>(17)</b> | 30    | 18      |
| Interest expense                               | 14          | (5)   | (11)    |
| Alternative minimum tax credit carryforward    | 2           | (9)   | (24)    |
| Henley related                                 |             |       | (100)   |
| State income taxes                             | 19          | 33    | 30      |
| All other items – net                          | <b>(5)</b>  | 6     | 19      |
|  | \$ 17       | \$ 69 | \$ (57) |

#### Note 7. Accounts and Notes Receivable

| Less — Allowance for doubtful accounts and refunds | 1,479 (27) | 1,470   |
|--|------------|---------|
| Other  | 183        | 150     |
| Trade  | \$1,296    | \$1,320 |
| December 31  | 1990       | 1989    |

#### Note 8. Inventories

| December 31                  | 1990    | 1989    |
|------------------------------|---------|---------|
| Raw materials                | \$ 705  | \$ 625  |
| Work in process              | 935     | 1.066   |
| Finished products            | 968     | 885     |
| Supplies and containers      | 52      | 52      |
|                              | 2,660   | 2,628   |
| Less —                       |         |         |
| Progress payments            | (339)   | (415)   |
| Reduction to LIFO cost basis | (153)   | (150)   |
|                              | \$2,168 | \$2,063 |

Inventories valued at LIFO amounted to \$326 million at December 31, 1990, and \$348 million at December 31, 1989, which amounts were below estimated replacement cost by \$153 and \$150 million, respectively.

#### Note 9. Other Current Assets

|                                   | \$314       | \$320        |
|-----------------------------------|-------------|--------------|
| Current – deferred taxes<br>Other | \$215<br>99 | \$210<br>110 |
| December 31                       | 1990        | 1989         |

#### Note 10. Investments and Long-term Receivables

| December 31                            | 1990              | 1989              |
|--|-------------------|-------------------|
| Oil and gas investment                 | \$ 509            | \$473             |
| Other affiliates Long-term receivables | $\frac{523}{107}$ | $\frac{375}{148}$ |
|  | \$1,139           | \$996             |

The Company has a 50 percent partnership interest in two joint ventures accounted for under the equity method, UOP and Paxon Polymer Company. The UOP joint venture is in the process technology and catalyst business while the Paxon joint venture manufactures and sells high-density polyethylene resins. The Company's share of the equity of the joint ventures exceeds its carrying value for these investments by \$276 million, which is being amortized over the remaining useful lives of the related assets.

Combined selected financial data for these two entities are summarized as follows:

| Year ended December 31 | 1990(a  |  |
|------------------------|---------|--|
| Net sales              | \$1,078 |  |
| Income from operations | 137     |  |
| Net income (b)         | 145     |  |
| December 31            | 1990    |  |
| Current assets         | \$ 805  |  |
| Total assets           | 1,848   |  |
| Current liabilities    | 221     |  |
| Noncurrent liabilities | 269     |  |
| Preferred capital      | 238     |  |
| Equity                 | 1,120   |  |

(a) Paxon Polymer Company was formed as an equally owned joint venture with Exxon Corporation (Exxon) effective July 1, 1990.
(b) No taxes have been provided by the entities on partnership income as the individual partners are responsible for their proportionate share of U.S. taxes payable.

#### Note 11. Property, Plant & Equipment

| December 31                                      | 1990     | 1989     |
|--|----------|----------|
| Land and land improvements                       | \$ 312   | \$ 305   |
| Machinery and equipment                          | 4,183    | 3,776    |
| Buildings  | 974      | 892      |
| Office furniture and equipment                   | 476      | 392      |
| Transportation equipment                         | 138      | 126      |
| Construction in progress                         | 352      | 312      |
|  | 6,435    | 5,803    |
| Less — Accumulated depreciation and amortization | (2,851)  | (2,482)  |
|  | \$ 3,584 | \$ 3,321 |

#### Note 12. Accrued Liabilities

| December 31                        | 1990    | 1989    |
|------------------------------------|---------|---------|
| Current taxes payable              | \$ 167  | \$ 291  |
| Wages                              | 313     | 284     |
| Insurance                          | 156     | 162     |
| Customer advance payments/deposits | 145     | 149     |
| Other                              | 690     | 789     |
|                                    | \$1,471 | \$1,675 |

#### Note 13. Long-term Debt and Credit Agreement

| December 31   | 1990                                    | 1989    |
|---|---|---------|
| Commercial paper, average 8.23%                     | \$ 125                                  | \$ —    |
| Revolving credit agreement, 8.3125%                 | 125                                     | · —     |
| Employee stock ownership floating rate notes,       |   |         |
| 6.6%–7.99%, due 19941996                            | 296                                     | 211     |
| 91/8% sinking fund debentures due December 15, 1997 | 148                                     | 173     |
| 9%% debentures due June 1, 2002                     | 250                                     | 250     |
| 8% subordinated exchangeable debentures due         |   |         |
| January 15, 1997–2009(a)                            | 63                                      | 80      |
| Zero coupon bonds and notes, 12.95%–13.899%, due    |   |         |
| 1992-2009   | 278                                     | 257     |
|   | 1,285                                   | 971     |
| Capitalized lease obligations, 5.75%-17.1%, matur-  |   |         |
| ing at various dates through 2016                   | 92                                      | 103     |
| Foreign currency bonds:                             | *************************************** | ····    |
| Japanese Yen 63/4% bonds:                           |   |         |
| Yen 10,000,000,000 due 1991                         |   | 70      |
| Yen 20,000,000,000 due 1993 (b)                     | 147                                     | 139     |
| Deutsche Mark 125,000,000 71/2% bonds due           |   |         |
| 1994 (c)  | 84                                      | 74      |
| Swiss Franc 95,000,000 (1990) 100,000,000 (1989)    |   |         |
| 6% bonds due 1994 (d)                               | 75                                      | 65      |
|   | 306                                     | 348     |
| Industrial development bond obligations,            |   |         |
| 5.5%-14.0%, maturing at various dates through       |   |         |
| 2014  | 119                                     | 122     |
| Other long-term debt, 5.0%–18.5%, maturing at       |   |         |
| various dates through 2016                          | 253                                     | 365     |
| Sub-total   | 2,055                                   | 1,909   |
| Less — Unamortized discount                         | (4)                                     | (6)     |
|   | \$2,051                                 | \$1,903 |

(a) The eight percent debentures are exchangeable for Unitrode Corporation common stock at a conversion price of \$40 per share of common stock of Unitrode or, at the Company's option, for Allied-Signal common stock of equivalent market value or cash.

(b) The Company has a foreign currency swap agreement to hedge total payments on the bonds, which results in a \$115 million obligation at an

effective fixed interest rate of 9.24 percent.

(c) The Company has foreign currency and interest rate swap agreements to hedge principal and interest payments, which result in a 67 million Dutch Guilder (\$39 million) obligation and in a \$41 million obligation with effective floating interest rates of 8.8125 and 8.0625 percent, respectively.

(d) The Company has a foreign currency and interest rate swap agreement to hedge principal and interest payments, which results in a 126 million Dutch Guilder (\$74 million) obligation with an effective floating

interest rate of 8.46 percent.

The schedule of principal payments on long-term debt is as follows:

| At December 31, 1990   | Long-term<br>Debt() |
|------------------------|---------------------|
| 1991                   | \$ 133              |
| 1992                   | 149                 |
| 1993                   | 200                 |
| 1994                   | 249                 |
| 1995                   | 195                 |
| Thereafter             | 1,258               |
|                        | 2,184               |
| Less — Current portion | (133)               |
|                        | \$2,051             |

(1) Amounts are net of repurchases.

In October 1988, the Company negotiated a new eightyear \$1.2 billion revolving credit agreement (Credit Agreement) with a group of 17 banks. The funds available under the Credit Agreement may be used for any corporate purpose. The principal amounts of such loans are required to be repaid no later than September 30, 1994, or may be converted to term loans to be repaid in semi-annual installments through September 30, 1998. Annually, the Company may request that the maturity of the revolving credit and the term loan be extended by another year. The Company has agreed to pay a commitment fee of  $\frac{1}{4}$  of 1 percent per annum on the first \$484 million of the commitment and  $\frac{1}{8}$  of 1 percent on the balance of the unutilized commitment.

Interest is payable at the average floating base rate of two reference banks or is payable at a rate which is, for the first three years of the Credit Agreement, no greater than 3% of 1 percent over the average LIBOR of three out of five reference banks. The Company had a total of \$500 million outstanding under the Credit Agreement at December 31, 1990. It has also served as support for issuance of commercial paper and notes under the Company's Employee Stock Ownership funding program. At December 31, 1990, the Company had outstanding \$125 million of commercial paper and \$125 million of Credit Agreement borrowings, which it intends to refinance or rollover on a long-term basis.

#### Note 14. Lease Commitments

Future minimum lease payments under operating leases having initial or remaining noncancellable lease terms in excess of one year are as follows:

| At December 31, 1990 | Lease<br>Payments |
|----------------------|-------------------|
| 1991                 | \$ 97             |
| 1992                 | 71                |
| 1993                 | 53                |
| 1994                 | 44                |
| 1995                 | 40                |
| Thereafter           | 309               |
| Total                | \$614             |

Rent expense of \$152, \$163 and \$164 million was included in costs and expenses for 1990, 1989 and 1988, respectively.

#### Note 15. Capital Stock

The Company is authorized to issue up to 20,000,000 shares of preferred stock without par value and may establish series of preferred stock having such number of shares and such terms as it may determine.

The Company is authorized to issue up to 500,000,000 shares of common stock, with a par value of one dollar. Common shareholders are entitled to receive such dividends as may be declared by the Board of Directors (the Board), are entitled to one vote per share, and are entitled, in the event of liquidation, to share ratably in all the assets of the Company which are available for distribution to the common shareholders. Common shareholders do not have preemptive or conversion rights. Shares of common stock issued and outstanding or held in the treasury are not liable to further calls or assessments. There is no restriction on dividends or the repurchase or redemption

of common stock by the Company. The Company has remaining authority to repurchase from time to time up to 14.3 million shares of common stock.

Each share of common stock is accompanied by a share purchase right (a Right) which entitles shareholders to buy one newly issued share of common stock at an exercise price of \$150, subject to adjustment. The Rights will be exercisable only if a person or group acquires stock representing 20 percent or more of the power to vote generally in the election of directors (becomes an acquiring person) or announces a tender or exchange offer which would result in such person or group becoming an acquiring person. Upon exercise after a person or a group becomes an acquiring person, each Right (other than Rights held by the acquiring person) will entitle the holder to purchase a number of shares of common stock of the Company having a market value of two times the exercise price. If the Company is acquired in a merger or other business combination, each Right will entitle the holder to purchase, at the then exercise price, a number of shares of common stock of the acquiring company having a market value of two times such exercise price. If circumstances warrant, the Board may decrease from 20 percent to as low as 15 percent the threshold used in determining when a person or group becomes an acquiring person or the conditions of exercise of the Rights, provided that the Board may not reduce the thresholds to or below the existing level of ownership of a shareholder. The Rights are redeemable at the Company's option at five cents per Right prior to a person or group's becoming an acquiring person. The Rights will expire on June 9, 1996, unless earlier redeemed. The Company has reserved approximately 154 million shares of common stock for issuance upon the exercise of the Rights.

|                                     | Shares<br>tanding<br>millions) | Common<br>Stock/<br>Paid-in<br>Capital | Treasury<br>Stock |
|-------------------------------------|--------------------------------|--|-------------------|
| Balance December 31, 1987           | 149.9                          | \$2,747                                | \$(1,150)         |
| Purchased under repurchase programs | (5.5)                          |  | (183)             |
| Used for Dividend Reinvestment Plan | .3                             |  | 11                |
| Used for employee benefit plans     | 3.3                            | _                                      | 141               |
| Balance December 31, 1988           | 148.0                          | 2,747                                  | (1,181)           |
| Purchased under repurchase programs | (5.8)                          |  | (208)             |
| Used for Dividend Reinvestment Plan | .2                             |  | 10                |
| Used for employee benefit plans     | 2.6                            | _                                      | 113               |
| Balance December 31, 1989           | 145.0                          | 2,747                                  | (1,266)           |
| Purchased under repurchase programs | (13.4)                         | _                                      | (452)             |
| Used for Dividend Reinvestment Plan | .3                             | *********                              | 12                |
| Used for employee benefit plans     | 2.8                            | _                                      | 128               |
| Balance December 31, 1990           | 134.7                          | \$2,747                                | \$(1,578)         |

#### Note 16. Stock Options and Awards

Under the amended 1985 Stock Plan for Employees, the Company may grant incentive and non-qualified stock options, stock appreciation rights (SARs), restricted shares and restricted units (Units) to officers and other employees up to a maximum of 19,000,000 shares of Company common stock. SARs entitle an optionee to surrender unexercised stock options for cash or stock equal to the excess of the fair market value of the surrendered shares over the option value of such shares. Units have been granted to certain employees, which entitle the

holder to receive shares of common stock or equivalent cash payments. At December 31, 1990, there were 508,157 Units outstanding, including 120,731 Units granted in 1990, the restrictions on which generally lapse over periods not exceeding eight years from date of grant. Incentive stock options have a term determined by the Compensation Committee of the Board (Committee), but not in excess of ten years. Non-qualified stock options have been granted with terms of ten years and one day. An option becomes exercisable at such times and in such installments as set by the Committee. Options generally become exercisable over a three-year period.

Under various plans of former subsidiaries merged into the Company, key employees have been granted common stock options, generally for terms of ten years, which become exercisable in installments over the first three years. No additional options may be granted under these plans.

Of the 9,156,790 shares covered by outstanding options under the plans at December 31, 1990, 2,049,294 were accompanied by SARs.

| Stock options                                   | Number of Shares |
|---|------------------|
| Outstanding at December 31, 1987                | 5,205,209        |
| Granted at \$31.19–\$36.13 per share            | 2,614,158        |
| Less —<br>Exercised at \$9.61–\$34.01 per share | 63,949           |
| Lapsed or cancelled                             | 1,300,456        |
| Outstanding at December 31, 1988                | 6,454,962        |
| Granted at \$34.75–\$37.69 per share<br>Less —  | 2,364,850        |
| Exercised at \$10.83–\$34.01 per share          | 144,995          |
| Lapsed or cancelled                             | 1,406,874        |
| Surrendered upon exercise of SARs               | 11,232           |
| Outstanding at December 31, 1989                | 7,256,711        |
| Granted at \$27.50–\$36.38 per share<br>Less —  | 2,436,275        |
| Exercised at \$13.42–\$34.75 per share          | 120,867          |
| Lapsed or cancelled                             | 400,329          |
| Surrendered upon exercise of SARs               | 15,000           |
| Outstanding at December 31, 1990,               |                  |
| \$20.24-\$46.82 per share                       | 9,156,790        |
| Exercisable at December 31, 1990                | 4,483,019        |
| Available for grant at December 31, 1989        | 10,991,257       |
| Available for grant at December 31, 1990        | 8,979,734        |
|   |                  |

All options were granted at not less than fair market value at dates of grant.

Treasury shares of common stock have been used upon exercise of stock options. Differences between the cost of treasury stock used and the total option price of shares exercised have been charged to retained earnings.

The Company also has a Restricted Stock Plan for Non-Employee Directors, under which each non-employee director received a one-time grant of 1,500 shares of common stock, subject to certain restrictions.

Note 17. Cumulative Foreign Exchange Translation Adjustment

| December 31  | 1990    | 1989  | 1988  |
|--|---------|-------|-------|
| Balance at beginning of year   | \$ 8    | \$ 31 | \$ 29 |
| Translation adjustment and impact of hedges<br>and intercompany balances<br>Income taxes (benefit) related to hedges and | 88      | (23)  | 18    |
| intercompany balances  | 2       | _     | (10)  |
| Dispositions   | ******* |       | (6)   |
|  | \$98    | \$ 8  | \$ 31 |

#### Note 18. Commitments and Contingencies

The Company is subject to a number of investigations. lawsuits and claims (some of which involve substantial amounts) arising out of the conduct of its business, including those relating to commercial transactions, government contracts, product liability and environmental, safety and health matters. In accordance with the Company's accounting policy described in Note 1 of Notes to Financial Statements, generally liabilities are recorded for environmental matters following the completion of feasibility studies. Although the Company does not currently possess sufficient information to reasonably estimate the amounts of the liabilities to be recorded as a result of pending studies, they may be significant to the consolidated results of operations. While the ultimate results of investigations, lawsuits and claims involving the Company cannot be determined, management does not expect that these matters will have a material adverse effect on the consolidated financial position of the Company.

The Company has issued or is a party to various direct and indirect guarantees, bank letters of credit and customer guarantees. Additionally, on behalf of The Henley Group, Inc. and Resco Holdings Inc. (formerly an affiliated business of Henley), the Company has issued financial, contract performance and project completion guarantees aggregating \$423 million. Such guarantees also relate to their affiliates and subsidiaries covering performance and repayments of debt. However, the Company is indemnified by Resco Holdings Inc. and Wheelabrator Investments Inc. (an affiliated business of Resco) for any payments which the Company may be required to make under these obligations. Management does not expect these guarantees will have a material adverse effect on the consolidated financial position of the Company.

#### Note 19. Supplemental Cash Flow Information

Cash payments during the years 1990, 1989 and 1988 included interest of \$251, \$245 and \$258 million and income taxes of \$184, \$198 and \$134 million, respectively.

In July 1990, the Company contributed its high-density polyethylene business and its partner, Exxon, contributed cash to a newly formed, equally owned joint venture. The transaction had the following non-cash impact on the Company's 1990 balance sheet:

|                                       | Amount |
|---------------------------------------|--------|
| Current assets                        | \$(29) |
| Property, plant and equipment – net   | (77)   |
| Investments and long-term receivables | 60     |
| Current liabilities                   | 46     |

Debt assumed by the purchasers of businesses in 1988 was approximately \$52 million.

In May 1988, the Company formed a process technology and catalyst joint venture with Union Carbide. The joint venture was formed by each of the companies contributing the assets and the joint venture assuming the liabilities of both companies' business units in exchange for a 50 percent interest. In addition, the Company received consideration which reflects the difference in the value of the Company's business compared to that of Union Carbide.

As a result of the transactions, the Company recorded an after-tax gain of \$24 million, or \$.16 a share, based on the recorded amount of the business contributed. The transactions had the following non-cash impact on the Company's 1988 balance sheet:

|                                       | Amount  |
|---------------------------------------|---------|
| Current assets                        | \$ (94) |
| Property, plant and equipment – net   | (71)    |
| Investments and long-term receivables | 253     |
| Intangible assets                     | (129)   |
| Current liabilities                   | 41      |

### Note 20. Pension and Other Postretirement Benefits

The Company's pension plans, most of which are defined benefit plans and almost all of which are noncontributory, cover substantially all employees. Benefits under the plans are generally based on years of service and employees' compensation during the last years of employment or a flat dollar benefit. Benefits are generally paid from funds previously provided to trustees. In the Company's principal U.S. plans, funds are contributed to a trustee as necessary to provide for current service and for any unfunded projected benefit obligation over a reasonable period. To the extent that these requirements are fully covered by assets on hand, a contribution may not be made in a particular year. As of year-end 1990, approximately 47 percent of the assets of U.S. plans were held in equity securities, with the balance primarily in fixed income-type securities.

Pension expense in 1990, 1989 and 1988 was \$78, \$77 and \$82 million, respectively. The Company adopted the provisions of Financial Accounting Standards Board (FASB) Statement No. 87—"Employers' Accounting for Pensions" (FASB No. 87) for certain foreign defined benefit plans effective January 1, 1989, the impact of which was immaterial. The Company uses the services of an enrolled actuary to calculate the amount of pension expense and contributions to trustees of the various pension plans.

Net periodic pension cost for 1990, 1989 and 1988 included the following components:

|  | 1  | 990                      |    | 1989                      | . : | 1988                      |
|--|----|--------------------------|----|---------------------------|-----|---------------------------|
| Service cost – benefits earned during the period<br>Interest cost on projected benefit obligation<br>Actual return on plan assets<br>Net amortization and deferral | ·  | 105<br>326<br>46<br>408) | \$ | 94<br>318<br>(528)<br>184 | \$  | 94<br>322<br>(565)<br>210 |
| Net periodic pension cost for defined<br>benefit plans<br>Foreign plans and other  |    | 69(a                     | a) | 68(8                      | a)  | 61<br>21(a)               |
| Net periodic pension cost  | \$ | 78                       | \$ | 77                        | \$  | 82                        |

(a) Includes pension expense for certain foreign pension plans in 1990 and 1989, reflecting the adoption of FASB No. 87 in 1989, which expenses are reported in "Foreign plans and other" for 1988.

The assumed rate of return for the Company's U.S. defined benefit pension plans was nine percent in 1990, 1989 and 1988. The assumed discount rate used in calculating the projected benefit obligations at December 31, 1990, 1989 and 1988 was 8.75 percent, 8.5 percent and nine percent, respectively. In addition, the assumed annual increase in compensation over employees' estimated remaining working lives was 5.5 percent for each of the respective years.

Presented below are the plans' funded status and amounts recognized in the Company's Consolidated Balance Sheet at December 31, 1990 and 1989, for its significant defined benefit pension plans:

|  |               |               | 1989          |               |  |
|--|---------------|---------------|---------------|---------------|--|
| December 31  | Assets Exceed | Accumulated   | Assets Exceed | Accumulated   |  |
|  | Accumulated   | Benefits      | Accumulated   | Benefits      |  |
|  | Benefits      | Exceed Assets | Benefits      | Exceed Assets |  |
| Actuarial present value of benefit obligation: Vested Nonvested  | \$1,969       | \$1,676       | \$2,236       | \$1,305       |  |
|  | 142           | 109           | 217           | 104           |  |
| Accumulated benefit obligation   | \$2,111       | \$1,785       | \$2,453       | \$1,409       |  |
| Projected benefit obligation Less — Fair value of assets   | \$2,424       | \$1,929       | \$2,835       | \$1,499       |  |
|  | 2,777         | 1,618         | 3,345         | 1,303         |  |
| Over (under) funded plans Unrecognized transition (asset) Unrecognized net (gain) loss Unrecognized prior service cost Tax effect of pension (asset) liability relating to purchase accounting | 353           | (311)         | 510           | (196)         |  |
|  | (44)          | (32)          | (31)          | (50)          |  |
|  | 51            | 131           | (108)         | 15            |  |
|  | 15            | 32            | 16            | 37            |  |
|  | (94)          | 53            | (104)         | 58            |  |
| Prepaid (accrued) pension cost   | \$ 281        | \$ (127)      | \$ 283        | \$ (136)      |  |

In addition to providing pension benefits, the Company provides other postretirement benefits (i.e., health care and life insurance benefits) for employees. Substantially all of the Company's employees may become eligible for those benefits if they reach normal retirement age while working for the Company. The cost of retiree health care and life insurance benefits are expensed as paid. In 1990, 1989 and 1988 the Company's cost for providing other postretirement benefits aggregated \$109, \$99 and \$81 million, respectively.

In December 1990, the FASB issued Statement No. 106—"Employers' Accounting for Postretirement Benefits Other Than Pensions" (FASB No. 106) which requires the Company to change the timing of recognizing the cost of the postretirement benefits provided to employees from the current cash to the accrual method of accounting by 1993. Currently, the Company is unable to quantify the impact of FASB No. 106 on its results of operations and financial position, although FASB No. 106 is expected to have a significant adverse effect in the year of adoption. Such impact will depend on medical inflation rates and the level of benefits provided by the Company's benefit plans in the future.

Note 21. Geographic Areas — Financial Data

|               |                              | United<br>States(1)              | Canada              | Europe                           | Other<br>Int'l.            | Adjust.<br>and Elim.    | Total                        |
|---------------|------------------------------|----------------------------------|---------------------|----------------------------------|----------------------------|-------------------------|------------------------------|
| Net sales (2) | 1 <b>990</b><br>1989<br>1988 | <b>\$9,395</b><br>9,339<br>9,169 | \$341<br>382<br>452 | <b>\$2,002</b><br>1,663<br>1,738 | <b>\$605</b><br>558<br>550 | \$ <u>—</u><br>—        | \$12,343<br>11,942<br>11,909 |
| Net income    | 1990<br>1989<br>1988         | 399<br>391<br>340                | 13<br>21<br>18      | 48<br>88<br>70                   | 2<br>28<br>35              |                         | 462<br>528<br>463            |
| Assets        | 1990<br>1989<br>1988         | 8,658<br>8,509<br>8,214          | 212<br>204<br>236   | 1,800<br>1,423<br>1,292          | 469<br>439<br>455          | (683)<br>(233)<br>(128) | 10,456<br>10,342<br>10,069   |
| Liabilities   | 1990<br>1989<br>1988         | <b>6,124</b> 5,992 5,778         | 149<br>129<br>127   | 1,253<br>840<br>817              | 233<br>202<br>224          | (683)<br>(233)<br>(145) | 7,076<br>6,930<br>6,801      |

Sales between geographic areas approximate market and are not significant.

(1) Corporate Office income, expenses, assets and liabilities are included in the United States column.

(2) Included in United States net sales are export sales of \$1,838, \$1,692 and \$1,464 million for each of the respective years.

#### Note 22. Oil and Gas Investment

The Company has approximately a 39 percent interest in the common stock (market value at December 31, 1990 and 1989 of \$504 and \$604 million, respectively) of Union Texas Petroleum Holdings, Inc. (Union Texas) and accounts for this investment using the equity method. The Company also has an investment in Union Texas' preferred stocks and warrants to purchase Union Texas' common stock (Warrants) in certain circumstances. In connection with a proposal to sell Union Texas and to satisfy an existing agreement, the Company transferred 1.45 million of the Company's 3 million Warrants to partnerships controlled by Kohlberg Kravis Roberts & Co., who also are major shareholders of Union Texas.

Selected financial data for Union Texas are summarized as follows:

| Years ended December 31 | 1990    | 1989  | 1988    |
|-------------------------|---------|-------|---------|
| Net sales               | \$1,283 | \$981 | \$1,073 |
| Income from operations  | 269     | 247   | 332     |
| Net income              | 116     | 173   | 109     |

| December 31                | 1990   | 1989   |
|----------------------------|--------|--------|
| Current assets             | \$ 502 | \$ 312 |
| Total assets               | 2,098  | 1,721  |
| Current liabilities        | 388    | 320    |
| Long-term debt             | 686    | 534    |
| Redeemable preferred stock | 275    | 275    |
| Shareholders' equity       | 375    | 275    |

The oil and gas activities of Union Texas are accounted for employing the successful efforts method of accounting as defined by the Financial Accounting Standards Board and as outlined in the Securities and Exchange Commission's accounting rules and releases. Costs of unsuccessful exploratory wells are expensed when determined to be non-productive. Production costs, overhead and all exploration costs other than costs for exploratory drilling are charged to expenses as incurred.

Net quantities of proved reserves at December 31, 1990, 1989 and 1988 and the operating results for the years then ended relating to the Company's approximate 39 percent interest in Union Texas' oil and gas producing operations are shown in the following tables (unaudited):

|                     |      |         | -                 |           | Oil      | — Million l                             | Barrels |         |                   | Natural Gas - | - Billion Cub | ic Feet |
|---------------------|------|---------|-------------------|-----------|----------|---|---------|---------|-------------------|---------------|---------------|---------|
|                     |      | U.S.(1) | United<br>Kingdom | Indonesia | Pakistan | Other<br>Int'l.(2)                      | Total   | U.S.(1) | United<br>Kingdom | Indonesia     | Pakistan      | Total   |
| Proved<br>developed |      |         |                   |           |          | *************************************** |         |         |                   |               |               |         |
| and                 | 1990 | 11      | 32                | 6         | 3        | 2                                       | 54      | 166     | 34                | 460(3)        | 45            | 705     |
| undeveloped         | 1989 | 12      | 31                | 6         | 3        | 3                                       | 55      | 230     | 36                | 491(4)        | 40            | 797     |
| reserves            | 1988 | 12      | 24                | 7         | 2        | 4                                       | 49      | 225     | 37                | 556(4)        | 37            | 855     |

|                                       |      | U.S.(1)      | United<br>Kingdom | Indonesia | Pakistan             | Other<br>Int'l. | Total  |
|---------------------------------------|------|--------------|-------------------|-----------|----------------------|-----------------|--------|
| Costs incurred in oil and             |      |              |                   |           |                      |                 |        |
| gas property acquisition,             | 1990 | <b>\$ 58</b> | \$ 65             | \$ 32     | \$ 4                 | \$ 6            | \$ 165 |
| exploration and                       | 1989 | 50           | 21                | 25        | 6                    | 2               | 104    |
| development activities                | 1988 | 75           | 15                | 19        | 5                    | $\bar{3}$       | 117    |
| Aggregate amount of capitalized costs |      |              |                   |           |                      |                 |        |
| (including construction in            | 1990 | <b>425</b>   | 321               | 276       | 18                   | 13              | 1,053  |
| progress) for proved and              | 1989 | 544          | 217               | 261       | 16                   | 23              | 1,061  |
| unproved properties                   | 1988 | 554          | 222               | 245       | 12                   | $\frac{24}{24}$ | 1,057  |
| Results of operations                 | 1990 | _            | 23                | 42        | 6                    | (4)             | 67     |
|                                       | 1989 |              | 12                | 30        | 3                    |                 | 45     |
|                                       | 1988 | 3            | 20                | 26        | $\overset{\circ}{2}$ | (3)             | 48     |
| Standardized measure of               | 1990 | 243          | 257               | 390       | 42                   | 12              | 944    |
| discounted future net                 | 1989 | 246          | 161               | 220       | $\frac{-}{27}$       | 5               | 659    |
| cash flows                            | 1988 | 225          | 145               | 134       | 14                   | 11              | 529    |

(1) Includes amounts (for reserves of —, 1 and 1 million barrels and —, 61 and 62 billion cubic feet for 1990, 1989 and 1988, respectively) for an equity partnership of Union Texas which was sold in 1990.

(2) Reserve information relates to a service contract operation in Argentina under which Union Texas is paid a fee based on production.

(3) Includes reserves that require the further expansion of the liquefied natural gas facilities.

(4) Includes reserves that required the negotiation of additional sales agreements and required the expansion of liquefied natural gas facilities (completed in 1989).

Note 23. Segment Financial Data

|  |              | Aerospace | Automotive | Engineered<br>Materials | Corporate<br>and<br>Unallocated(1) | Total           |
|--|--------------|-----------|------------|-------------------------|------------------------------------|-----------------|
| Net sales(2)                                     | 1990         | \$5,358   | \$4,181    | <b>\$2,786</b>          | \$ 18                              | <b>\$12,343</b> |
|  | 1989         | 5,079     | 3,849      | 2,993                   | 21                                 | 11,942          |
|  | 1988         | 4,746     | 4,101      | 3,033                   | 29                                 | 11,909          |
| Research, development and engineering expense(3) | 1990         | 384       | 170        | 139                     | 28                                 | 721             |
|  | 1989         | 306       | 149        | 122                     | 26                                 | 603             |
|  | 1988         | 311       | 174        | 120                     | 42                                 | 647             |
| Depreciation and amortization                    | 1990         | 140       | 143        | 129                     | 14                                 | <b>426</b>      |
|  | 1989         | 123       | 120        | 128                     | 14                                 | 385             |
|  | 1988         | 114       | 121        | 125                     | 16                                 | 376             |
| Income from operations(4)                        | 1990         | 498       | 166        | <b>287</b>              | (221)                              | 730             |
|  | 1989         | 514       | 302        | 355                     | (225)                              | 946             |
|  | 1988         | 346       | 268        | 377                     | (310)                              | 681             |
| Net income(4)(5)                                 | 1990         | 235       | 34         | 228                     | (35)                               | 462             |
|  | 1989         | 225       | 114        | 245                     | (56)                               | 528             |
|  | 1988         | 119       | 99         | 222                     | 23                                 | 463             |
| Capital expenditures                             | 1990         | 230       | <b>222</b> | <b>214</b>              | 9                                  | 675             |
|  | 1989         | 162       | 209        | 163                     | 7                                  | 541             |
|  | 1988         | 163       | 246        | 181                     | 12                                 | 602             |
| Identifiable assets                              | 1 <b>990</b> | 4,224     | 2,794      | 1,896                   | 1,542                              | 10,456          |
|  | 1989         | 4,335     | 2,619      | 1,879                   | 1,509                              | 10,342          |
|  | 1988         | 4,351     | 2,582      | 1,839                   | 1,297                              | 10,069          |

Intersegment sales approximate market and are not significant.

(3) Engineering activities totaled \$295, \$222 and \$232 million for each of the respective years.

Note 24. Unaudited Quarterly Financial Information

|                                     |         |         |          |         | 1990     |         |         |          |         | 1989     |
|-------------------------------------|---------|---------|----------|---------|----------|---------|---------|----------|---------|----------|
|                                     | Mar. 31 | June 30 | Sept. 30 | Dec. 31 | Year     | Mar. 31 | June 30 | Sept. 30 | Dec. 31 | Year     |
| Net sales                           | \$3,055 | \$3,184 | \$2,961  | \$3,143 | \$12,343 | \$2,942 | \$3,115 | \$2,827  | \$3,058 | \$11,942 |
| Gross profit                        | 568     | 559     | 497      | 493     | 2,117    | 572     | 594     | 555      | 558     | 2,279    |
| Net income                          | 129     | 121     | 105      | 107     | 462      | 126     | 166(a)  | 121      | 115     | 528      |
| Per share of common stock:          |         |         |          |         |          |         |         |          |         |          |
| Net earnings                        | .90     | .88     | .76      | .80     | 3.35     | .85     | 1.11    | .81      | .78     | 3.55     |
| Dividends paid                      | .45     | .45     | .45      | .45     | 1.80     | .45     | .45     | .45      | .45     | 1.80     |
| Market price<br>(composite tape)(b) |         |         |          |         |          |         |         |          |         |          |
| High                                | 37.50   | 37.88   | 36.75    | 30.75   | 37.88    | 35.50   | 35.50   | 40.38    | 38.63   | 40.38    |
| Low                                 | 32.50   | 34.25   | 27.25    | 24.88   | 24.88    | 32.13   | 31.75   | 33.00    | 31.88   | 31.75    |

<sup>(</sup>a) In 1989, the second quarter includes equity income of \$23 million, or \$.16 a share, relating to Union Texas' business interruption insurance settlement.

<sup>(1)</sup> The "Corporate and Unallocated" column includes amounts for businesses sold, nonrecurring, discontinued and Corporate items. Net Income in 1988 includes nonrecurring gains relating to Automotive and Engineered Materials of \$57 and \$24 million, respectively. Also included in Net Income are amounts (including preferred dividends) for Union Texas, accounted for on the equity basis, of \$59, \$80 and \$57 million for each of the respective years. Identifiable Assets include an investment in Union Texas of \$509, \$473 and \$476 million, and other Corporate assets of \$1,033, \$1,036 and \$821 million for each of the respective years.

<sup>(2)</sup> Sales to the U.S. government and its agencies, mainly for the Aerospace segment, were \$1,373, \$1,335 and \$1,314 million for each of the respective years.

<sup>(4)</sup> Includes in 1988 a pre- and after-tax provision to cover streamlining and restructuring charges for Aerospace of \$76 and \$50 million, Automotive of \$37 and \$23 million, Engineered Materials of \$23 and \$14 million and Corporate and Unallocated of \$61 and \$38 million (including environmental expenditures of \$22 and \$14 million), respectively.

<sup>(5)</sup> An interest charge is made by Corporate Office to the segments on the basis of relative investment, taxes on income are generally included in the segments which gave rise to the tax effects and equity in income of affiliated companies is included in the segments in which these companies operate.

<sup>(</sup>b) Primarily traded on The New York Stock Exchange.

(Dollars in millions except per share amounts)

| For the Ye                            | ar Net sales   |                             | 1990                |  |                             | s ended Dece                   |                         |                            |
|---------------------------------------|--|-----------------------------|---------------------|--|-----------------------------|--------------------------------|-------------------------|----------------------------|
|                                       | Income from continuing operations Net income Per share of common at all  | \$1                         | 2,34;<br>462<br>462 | $\begin{array}{ccc} 3 & \$11,94 \\ 2 & 52 \end{array}$ | 2 \$11,5                    | 988(a)<br>909<br>463(b)<br>463 | \$11,11                 | 5(b) $539$                 |
|                                       | Earnings from continuing operations Net earnings Dividends: Cash   |                             | 3.35<br>3.35        |  |                             | 10<br>10                       | 3.07                    | 7 2.89                     |
| A+ Van E                              | Special distribution<br>Total  |                             | 1.80                | 1.80   | 1.8                         | 30<br>—                        | 1.80                    | 1.80                       |
| At Year-End                           | Property, plant and consistence  | \$                          | $\frac{1.80}{892}$  | \$ 1,065   | 1.8<br>\$ 1,04              |                                | 1.80                    | $\frac{5.276}{7.07}$       |
|                                       | Total assets Long-term debt Preferred redeemable stock   | 10,                         | 584<br>456          | 3,321 $10,342$   | 3,21 $10,069$               | 4                              | 722<br>3,330<br>.0,321  | \$ 1,016<br>3,514          |
|                                       | Book value per share of  |                             | 051<br>—<br>880     | 1,903  | 2,04                        | 4<br>-                         | 2,017                   | 11,286<br>2,127            |
|                                       | Average investment(d) Number of common shares outstanding (in millions)  | 25.<br>6,7                  | 10                  | 3,412<br>23.53<br>6,520                                | 3,268<br>22.09<br>6,629     |                                | 3,129<br>20.87<br>3,859 | 52 $3,686$ $21.06$ $6,272$ |
| inancial<br>atistics(f)               | Common shareholders Employees(e)  Return on sales (after-tax)  | 134<br>97,21<br>105,80      | 10                  | $145.0 \\ 102,042 \\ 107,100$                          | 148.0<br>111,402<br>109,550 | 109                            | 49.9                    | 174.4<br>121,913           |
| I I I I I I I I I I I I I I I I I I I | Return on average investment (after-tax) Return on average shareholders' equity  | 3.<br>9.                    | 6                   | 4.4<br>11.0  | 3.2<br>9.0                  |                                | ,300<br>4.6<br>10.1     | $\frac{137,200}{5.5}$ 10.9 |
|                                       | Interest coverage ratio Long-term debt as a percent of total capital Total debt as a percent of total capital comparative purposes. This for streamlining and restructuring and nonrecurring its in 1987 the effect of the sale of | 13.9<br>2.6<br>33.6<br>40.4 | 3<br>3              | 15.6<br>3.0<br>30.8<br>35.7                            | 12.0<br>2.3<br>33.2         |                                | 4.5<br>3.6<br>3.9       | 13.4<br>3.8<br>33.0        |

<sup>(</sup>b) Includes provisions for streamlining and restructuring and nonrecurring items for 1988 as discussed in Notes 2 and 4 of Notes to Financial Statements. Includes in 1987 the effect of the sale of common stock by Union Texas which resulted in the Company recording a gain of \$108 million

<sup>(</sup>c) Represents a special dividend, valued at \$5.27 per share, relating to the Company's distribution of one common share of The Henley Group, Inc. for each four shares of the Company's common stock held as of May 16, 1986.

<sup>(</sup>d) Investment is defined as shareholders' equity, preferred redeemable stock and deferred taxes plus total debt. (e) Includes employees at facilities operated for the U.S. Department of Energy.

## **Management Committee**

## **Officers**



Edward L. Hennessy, Jr.



Alan Belzer



John W. Day



Roy H. Ekrom



Frederic M. Poses



John W. Barter



Brian D. Forrow



Mary L. Good



David G. Powell



Donald J. Redlinger



James E. Sierk

#### **Edward L. Hennessy, Jr.** Chairman of the Board and Chief Executive Officer

#### **Alan Belzer** President and Chief Operating Officer

#### **John W. Day** Executive Vice President and President Automotive

**Roy H. Ekrom**Executive Vice President and
President
Allied-Signal Aerospace Co.

**Frederic M. Poses**Executive Vice President and
President
Engineered Materials

**John W. Barter** Senior Vice President and Chief Financial Officer

**Brian D. Forrow** Senior Vice President and General Counsel

Mary L. Good Senior Vice President Technology

**David G. Powell** Senior Vice President Public Affairs

**Donald J. Redlinger** Senior Vice President Human Resources

**James E. Sierk** Senior Vice President Quality and Productivity

**James J. Verrant** Senior Vice President and President Allied-Signal International

Edward W. Callahan Vice President Health, Safety and Environmental Sciences

**Kenneth W. Cole** Vice President Government Relations

#### **G. Peter D'Aloia** Vice President and Treasurer

#### **Andrew B. Samet** Vice President, Secretary and Associate General Counsel

J. Thomas Zusi Vice President and Controller



James J. Verrant



Andrew B. Samet

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Alan Belzer President and Chief Operating Officer Allied-Signal Inc.

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Jewel Plummer Cobb <sup>3,7</sup> President and Professor of Biological Sciences, Emeritus California State University, Fullerton

Eugene E. Covert <sup>3,7</sup> Professor Aeronautics and Astronautics Massachusetts Institute of Technology

Donald W. Davis <sup>5,6,7</sup> Chairman of the Executive Committee The Stanley Works (tools and hardware)

William R. Haselton <sup>1,2</sup> Retired Vice Chairman Champion International Corporation (paper and forest products)

Gen. Paul X. Kelley 1.3.7 U.S. Marine Corps, Retired Vice Chairman for Corporate Strategy Cassidy and Associates, Inc. (government relations firm)

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Robert P. Luciano <sup>2,5</sup> Chairman and Chief Executive Officer Schering-Plough Corporation (pharmaceuticals and consumer products)

Russell E. Palmer 1,3,6 Chairman and Chief Executive Officer The Palmer Group (private investment firm)

Lt. Gen. Thomas P. Stafford <sup>3,7</sup> U.S. Air Force, Retired Consultant General Technical Services, Inc. (consulting firm)

Delbert C. Staley 2,4,5,7 Retired Chairman and Chief Executive Officer NYNEX Corporation (telecommunications)

Rawleigh Warner, Jr. 2,4,5,6 Retired Chairman and Chief Executive Officer Mobil Corporation (petroleum and chemicals)

Robert C. Winters 1.2.6 Chairman and Chief Executive Officer The Prudential Insurance Company of America (insurance and financial services)

(Numbers next to each Director's name refer to the Committees on which he or she serves.)

#### Committees of the Board

<sup>1</sup> Audit Committee Russell E. Palmer, Chairman

<sup>2</sup> Management Development and Compensation Committee Delbert C. Staley, Chairman

<sup>3</sup> Corporate Responsibility Committee Robert D. Kilpatrick, Chairman

<sup>4</sup> Executive Committee Edward L. Hennessy, Jr., Chairman

<sup>5</sup> Nominating and Board Affairs Committee Rawleigh Warner, Jr., Chairman

<sup>6</sup> Retirement Plans Committee Donald W. Davis, Chairman

<sup>7</sup> Technology Committee Thomas P. Stafford, Chairman **Annual Meeting** 

The Annual Meeting of Shareholders will be held at 10 a.m. on Monday, April 29, 1991, at Allied-Signal's corporate headquarters, 101 Columbia Road, Morris Township, New Jersey.

#### Dividend/Other Shareholder Matters

Allied-Signal's Dividend Reinvestment Plan provides for the automatic reinvestment of Common Stock dividends at market price. Participants also may add cash for the purchase of additional shares of Common Stock without payment of any brokerage commission or service charge.

For more information about the plan or for answers to questions about dividend checks, stock transfers or other Shareholder matters, write or call:

Shareholder Relations Allied-Signal Inc. P. O. Box 50000 Morristown, New Jersey 07962-5000

In New Jersey call (201) 455-2127 collect Outside New Jersey call 1 (800) 255-4332

#### Form 10-K

Shareholders may request a copy of Form 10-K, which the Corporation files with the Securities and Exchange Commission, by contacting:

Corporate Publications Allied-Signal Inc. P. O. Box 2245 Morristown, New Jersey 07962-2245 Stock Exchange Listings

Allied-Signal's Common Stock is listed on the New York, Midwest and Pacific Stock Exchanges under the symbol ALD. It is also listed on the Amsterdam, Basel, Frankfurt, Geneva, London, Paris, Tokyo and Zurich Stock Exchanges.

Transfer Agent/Registrar

The Bank of New York 101 Barclay Street New York, New York 10286

#### Brand Names/ Trademarks

Throughout this 1990 Annual Report product and service references in italies with Initial Capitals represent trademarks, service marks or brand names owned by or associated with Allied-Signal Inc.



Allied-Signal Inc. P.O. Box 2245 Morristown, New Jersey 07962-2245

# BY-LAWS OF ALLIED-SIGNAL INC.

As amended through December 14, 1990

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#### BY-LAWS OF ALLIED-SIGNAL INC.

#### ARTICLE I

#### **OFFICES**

SECTION 1. Registered Office. The registered office of Allied-Signal Inc. (hereinafter called the Corporation) within the State of Delaware shall be in the City of Wilmington, County of New Castle.

SECTION 2. Other Offices. The Corporation may also have an office or offices and keep the books and records of the Corporation, except as may otherwise be required by law, in such other place or places, either within or without the State of Delaware, as the Board of Directors of the Corporation (hereinafter called the Board) may from time to time determine or the business of the Corporation may require.

#### ARTICLE II

#### MEETINGS OF STOCKHOLDERS

SECTION 1. Place of Meetings. All meetings of Stockholders of the Corporation shall be held at the registered office of the Corporation in the State of Delaware or at such other place, within or without the State of Delaware, as may from time to time be fixed by the Board or specified or fixed in the respective notices or waivers of notice thereof.

SECTION 2. Annual Meetings. The annual meeting of Stockholders of the Corporation for the election of directors and for the transaction of any other proper business shall be held at 10:00 a.m. on the last Monday of April of each year, or on such other date and at such other time as may be fixed by the Board. If the annual meeting for the election of directors shall not be held on the day designated, the Board shall cause the meeting to be held as soon thereafter as convenient.

SECTION 3. Special Meetings. Special meetings of Stockholders, unless otherwise provided by law, may be called at any time by the Board pursuant to a resolution adopted by a majority of the then authorized number of directors (as determined in accordance with Section 2 of Article III of these Bylaws), or by the Chief Executive Officer. Any such call must specify the matter or matters to be acted upon at such meeting and only such matter or matters shall be acted upon thereat.

SECTION 4. Notice of Meetings. Notice of each meeting of Stockholders, annual or special, shall be in writing, shall state the place, date and hour of the meeting, and, in the case of a special meeting, the purpose or purposes for which the meeting is called. Unless otherwise provided by law, the written notice of any meeting shall be given not less than 10 nor more than 60 days before the date of the meeting to each Stockholder entitled to vote at the meeting. If mailed, notice is given when deposited in the United States mail, postage prepaid, directed to the Stockholder at his address as it appears on the records of the Corporation. Unless (i) the adjournment is for more than 30 days, or (ii) the Board shall fix a new record date for any adjourned meeting after the adjournment, notice of an adjourned meeting need not be given if the time and place to which the meeting shall be adjourned were announced at the meeting at which the adjournment was taken.

SECTION 5. Quorum. At each meeting of Stockholders of the Corporation, the holders of a majority of the shares of capital stock of the Corporation entitled to vote at the meeting, present in person or represented by proxy, shall constitute a quorum for the transaction of business, except as otherwise provided by law. In the absence of a quorum, the chairman of the meeting or a majority in interest of those present in person or represented by proxy and entitled to vote at the meeting may adjourn the meeting from time to time until a quorum shall be present.

SECTION 6. Order of Business. The order of business at all meetings of Stockholders shall be as determined by the chairman of the meeting.

SECTION 7. Voting. Except as otherwise provided in the Certificate of Incorporation, at each meeting of Stockholders, every Stockholder of the Corporation shall be entitled to one vote for every

share of capital stock standing in his name on the stock record of the Corporation (i) at the time fixed pursuant to Section 6 of Article VII of these By-laws as the record date for the determination of Stockholders entitled to vote at such meeting, or (ii) if no such record date shall have been fixed, then at the close of business on the day next preceding the day on which notice thereof shall be given. At each meeting of Stockholders, except as otherwise provided by law or in the Certificate of Incorporation or these By-laws, in all matters other than the election of directors, the affirmative vote of the majority of shares present in person or represented by proxy and entitled to vote on the subject matter shall be the act of the Stockholders.

SECTION 8. Inspectors. In advance of any meeting of Stockholders, the Board shall appoint one or more inspectors to act at the meeting and make a written report thereof and may designate one or more alternate inspectors to replace any inspector who fails to act. If no inspector or alternate is able to act at a meeting, the chairman of the meeting shall appoint one or more inspectors to act at the meeting. Each inspector shall take and sign such oath and perform such duties as shall be required by law and may perform such other duties not inconsistent therewith as may be requested by the Corporation.

#### ARTICLE III

#### **DIRECTORS**

SECTION 1. Powers. The business and affairs of the Corporation shall be managed by or under the direction of the Board. The Board may exercise all such authority and powers of the Corporation and do all such lawful acts and things as are not by law or otherwise directed or required to be exercised or done by the Stockholders.

SECTION 2. Number, Election and Terms. The authorized number of directors may be determined from time to time by vote of a majority of the then authorized number of directors or by the affirmative vote of the holders of at least 80% of the voting power of the then outstanding shares of capital stock of the Corporation entitled to vote generally in the election of directors, voting together as a single class; provided, however, that such number shall not be less than 13 nor more than 23, and that such number shall automatically be increased by two in the event of default in the payment of dividends on the Preferred Stock under the circumstances described in the Certificate of Incorporation. The directors, other than those who may be elected by the holders of the Preferred Stock of the Corporation pursuant to the Certificate of Incorporation, shall be classified with respect to the time for which they severally hold office, into three classes, as nearly equal in number as possible, as determined by the Board, one class to be originally elected for a term expiring at the annual meeting of Stockholders to be held in 1986, another class to be originally elected for a term expiring at the annual meeting of Stockholders to be held in 1987, and another class to be originally elected for a term expiring at the annual meeting of Stockholders to be held in 1988, with the members of each class to hold office until their successors have been elected and qualified. At each annual meeting of Stockholders, the successors of the class of directors whose term expires at that meeting shall be elected to hold office for a term expiring at the annual meeting of Stockholders held in the third year following the year of their election. Except as otherwise provided in the Certificate of Incorporation, newly created directorships resulting from any increase in the number of directors and any vacancies on the Board resulting from death, resignation, disqualification, removal or other cause shall be filled by the affirmative vote of a majority of the remaining directors then in office, even if less than a quorum of the Board, or by a sole remaining director. Any director elected in accordance with the preceding sentence shall hold office until the annual meeting of Stockholders at which the term of office of the class to which such director has been elected expires and until such director's successor shall have been elected and qualified. No decrease in the number of directors constituting the Board shall shorten the term of any incumbent director.

SECTION 3. Nomination of Directors; Election. Nomination for the election of directors may be made at a meeting of Stockholders by the Board or a committee appointed by the Board, or by any Stockholder entitled to vote for the election of directors at the meeting who while a Stockholder of record shall have given written notice of his intent to make such nomination in conformity with this Section 3. A Stockholder's notice of intent to make a nomination shall be addressed to the Secretary of the Corporation and shall be delivered to or mailed and received at the principal executive offices of the Corporation not less than 30 days nor more than 60 days prior to the meeting; provided that in the

event less than 40 days' notice or prior public disclosure of the date of the meeting is given, notice by the Stockholder must be so received not later than the close of business on the 10th day following the day on which the notice of meeting was first mailed or such public disclosure was made. The Stockholder's notice shall include (i) as to each person the Stockholder proposes to nominate for election or re-election as a director all information relating to such person required to be disclosed in solicitations of proxies for election of directors or otherwise required pursuant to Regulation 14A promulgated under the Securities Exchange Act of 1934, as amended, and such person's written consent to be nominated and to serve as a director if elected and (ii) the Stockholder's name and address as they appear on the Corporation's stock record and the class and number of shares of capital stock of the Corporation the Stockholder beneficially owns. At the request of the Board of Directors, any person nominated by the Board of Directors for election as a director shall furnish to the Secretary of the Corporation that information required to be set forth in a Stockholder's notice of nomination which pertains to the nominee. No person shall be eligible to serve as a director of the Corporation unless nominated in accordance with the procedure set forth in this By-law. The chairman of the meeting shall, if the facts warrant, determine and declare to the meeting that a nomination was not made in accordance with the procedure prescribed by the By-laws, and if he should so declare, the defective nomination shall be disregarded. Notwithstanding the foregoing provisions of this Section 3, a Stockholder shall also comply with all applicable requirements of the Securities Exchange Act of 1934, as amended, and the rules and regulations thereunder with respect to the matters set forth in this Section 3. Directors shall be at least 21 years of age. Directors need not be Stockholders. At each meeting of Stockholders for the election of directors, directors shall be elected by a plurality of the votes of the shares present in person or represented by proxy at the meeting and entitled to vote on the election of directors.

SECTION 4. Place of Meetings. Meetings of the Board shall be held at such place, within or without the State of Delaware, as the Board may from time to time determine or as shall be specified or fixed in the notice or waiver of notice of any such meeting.

SECTION 5. Regular Meetings. Regular meetings of the Board shall be held in accordance with a yearly meeting schedule as determined by the Board; or such meetings may be held on such other days and at such other times as the Board may from time to time determine. Notice of regular meetings of the Board need not be given except as otherwise required by these By-laws.

SECTION 6. Special Meetings. Special meetings of the Board may be called by the Chief Executive Officer and shall be called by the Secretary at the request of any two of the other directors.

SECTION 7. Notice of Meetings. Notice of each special meeting of the Board (and of each regular meeting for which notice shall be required), stating the time, place and purposes thereof, shall be mailed to each director, addressed to him at his residence or usual place of business, or shall be sent to him by telex, cable or telegram so addressed, or shall be given personally or by telephone, on 24 hours notice, or such shorter notice as the person or persons calling such meeting may deem necessary or appropriate in the circumstances.

SECTION 8. Quorum and Manner of Acting. The presence of at least a majority of the authorized number of directors shall constitute a quorum for the transaction of business at any meeting of the Board. If a quorum shall not be present at any meeting of the Board, a majority of the directors present thereat may adjourn the meeting from time to time, without notice other than announcement at the meeting, until a quorum shall be present. Except where a different vote is required by law or the Certificate of Incorporation or these By-laws, the vote of a majority of the directors present at a meeting at which a quorum is present shall be the act of the Board. Any action required or permitted to be taken by the Board may be taken without a meeting if all the directors consent thereto in writing and the writing or writings are filed with the minutes of proceedings of the Board. Any one or more directors may participate in any meeting of the Board by means of conference telephone or similar communications equipment by means of which all persons participating in the meeting can hear each other. Participation by such means shall constitute presence in person at a meeting of the Board.

SECTION 9. Resignation. Any director may resign at any time by giving written notice to the Chairman of the Board, the Chief Executive Officer or the Secretary, which notice shall be deemed to

constitute notice to the Corporation. Such resignation shall take effect upon receipt of such notice or at any later time specified therein.

SECTION 10. Removal of Directors. Subject to the rights of the holders of Preferred Stock, any director may be removed from office only for cause by the affirmative vote of the holders of at least 80% of the voting power of all shares of the Corporation entitled to vote generally in the election of directors, voting together as a single class.

SECTION 11. Compensation of Directors. The Board may provide for the payment to any of the directors, other than officers or employees of the Corporation, of a specified amount for services as a director or member of a committee of the Board, or of a specified amount for attendance at each regular or special Board meeting or committee meeting, or of both, and all directors shall be reimbursed for expenses of attendance at any such meeting; provided, however, that nothing herein contained shall be construed to preclude any director from serving the Corporation in any other capacity and receiving compensation therefor.

#### ARTICLE IV

#### COMMITTEES OF THE BOARD

SECTION 1. Appointment and Powers of Executive Committee. The Board shall, by resolution adopted by the affirmative vote of a majority of the authorized number of directors, designate an Executive Committee of the Board which shall consist of such number of directors as the Board may determine.

Executive Committee shall have and may exercise all the powers and authority of the Board in the management and direction of the business and affairs of the Corporation (except for matters hereinafter assigned or assigned by the Board to the Audit Committee or the Compensation Committee), in such manner as the Executive Committee shall deem in the best interests of the Corporation, in all cases in which specific directions shall not have been given by the Board, and may authorize the seal of the Corporation to be affixed to all papers which require it. A majority of the members of the Executive Committee shall constitute a quorum for the transaction of business by the committee and the vote of a majority of the members of the committee present at a meeting at which a quorum is present shall be the act of the committee. Either the Chief Executive Officer or the Chairman of the Executive Committee may call meetings of the Executive Committee.

SECTION 2. Appointment and Powers of Audit Committee. The Board shall, by resolution adopted by the affirmative vote of a majority of the authorized number of directors, designate an Audit Committee of the Board, which shall consist of such number of directors as the Board may determine and shall be comprised solely of directors independent of management and free from any relationship that, in the opinion of the Board, would interfere with the exercise of independent judgment as a committee member. The Audit Committee shall (i) make recommendations to the Board as to the independent accountants to be appointed by the Board; (ii) review with the independent accountants the scope of their examination; (iii) receive the reports of the independent accountants and meet with representatives of such accountants for the purpose of reviewing and considering questions relating to their examination and such reports; (iv) review, either directly or through the independent accountants, the internal accounting and auditing procedures of the Corporation and (v) perform such other functions as may be assigned to it from time to time by the Board. The Audit Committee may determine its manner of acting and fix the time and place of its meetings, unless the Board shall otherwise provide. A majority of the members of the Audit Committee shall constitute a quorum for the transaction of business by the committee and the vote of a majority of the members of the committee present at a meeting at which a quorum is present shall be the act of the committee.

SECTION 3. Other Committees. The Board may, by the affirmative vote of a majority of the authorized number of directors, designate members of the Board to constitute a Compensation Committee and other committees of the Board, which shall in each case consist of such number of directors as the Board may determine, and shall have and may exercise, to the extent permitted by law, such powers and authority as the Board may by resolution delegate to them and may authorize the seal

of the Corporation to be affixed to all papers which require it. Each such committee may determine its manner of acting and fix the time and place of its meetings, unless the Board shall otherwise provide. A majority of the members of any such committee shall constitute a quorum for the transaction of business by the committee and the vote of a majority of the members of such committee present at a meeting at which a quorum is present shall be the act of the committee.

SECTION 4. Action by Consent; Participation by Telephone or Similar Equipment. Unless the Board shall otherwise provide, any action required or permitted to be taken by any committee may be taken without a meeting if all members of the committee consent thereto in writing and the writing or writings are filed with the minutes of proceedings of the committee. Unless the Board shall otherwise provide, any one or more members of any committee may participate in any meeting of the committee by means of conference telephone or similar communications equipment by means of which all persons participating in the meeting can hear each other. Participation by such means shall constitute presence in person at a meeting of the committee.

SECTION 5. Changes in Committees; Resignations; Removals. The Board shall have power, by the affirmative vote of a majority of the authorized number of directors, at any time to change the members of, to fill vacancies in, and to discharge any committee of the Board. Any member of any such committee may resign at any time by giving written notice to the Chairman of the Board, the Chief Executive Officer, the Chairman of such committee or the Secretary, which notice shall be deemed to constitute notice to the Corporation. Such resignation shall take effect upon receipt of such notice or at any later time specified therein. Any member of any such committee may be removed at any time, either with or without cause, by the affirmative vote of a majority of the authorized number of directors at any meeting of the Board, provided such removal shall have been referred to in the notice of such meeting.

#### ARTICLE V

#### **OFFICERS**

SECTION 1. Number and Qualifications. The officers of the Corporation may include a Chairman of the Board, Vice Chairman of the Board, Chief Executive Officer, President, one or more Vice Presidents, General Counsel, Treasurer, Secretary and Controller; provided, however, that any one or more of the foregoing offices may remain vacant from time to time, except as otherwise required by law. So far as practicable, the officers shall be elected annually on the day of the annual meeting of Stockholders. Each officer shall hold office until the next annual election of officers and until his successor is elected and qualified, or until his death or retirement, or until he shall have resigned or been removed in the manner hereinafter provided. The same person may hold more than one office. The Chairman of the Board, the Vice Chairman of the Board, the Chief Executive Officer and the President shall be elected from among the directors. The Board may from time to time elect or appoint such other officers or agents as may be necessary or desirable for the business of the Corporation. Such other officers and agents shall have such titles and duties and shall hold their offices for such terms as may be prescribed by the Board. The Chief Executive Officer may appoint one or more Deputy, Associate or Assistant officers, or such other agents as may be necessary or desirable for the business of the Corporation. In case one or more Deputy, Associate or Assistant officers shall be appointed, the officer such appointee assists may delegate to him the authority to perform such of the officer's duties as the officer may determine.

SECTION 2. Resignations. Any officer may resign at any time by giving written notice to the Chairman of the Board, the Chief Executive Officer or the Secretary, which notice shall be deemed to constitute notice to the Corporation. Such resignation shall take effect upon receipt of such notice or at any later time specified therein.

SECTION 3. Removal. Any officer or agent may be removed, either with or without cause, at any time, by the Board at any meeting, provided such removal shall have been referred to in the notice of such meeting; provided, further, that the Chief Executive Officer may remove any agent appointed by the Chief Executive Officer.

SECTION 4. Vacancies. Any vacancy among the officers, whether caused by death, resignation, removal or otherwise, shall be filled in the manner prescribed for election to such office.

SECTION 5. Chairman of the Board. The Chairman of the Board shall, if present, preside at all meetings of the Board and, in the absence of the Chief Executive Officer, at all meetings of the Stockholders. He shall perform the duties incident to the office of the Chairman of the Board and all such other duties as are specified in these By-laws or as shall be assigned to him from time to time by the Board.

SECTION 6. Vice Chairman of the Board. The Vice Chairman of the Board shall, if present, preside at all meetings of the Board at which the Chairman of the Board shall not be present and at all meetings of the Stockholders at which neither the Chief Executive Officer nor the Chairman of the Board shall be present. He shall perform such other duties as shall be assigned to him from time to time by the Board or the Chief Executive Officer.

SECTION 7. Chief Executive Officer. The Chief Executive Officer shall, if present, preside at all meetings of the Stockholders. He shall have, under the control of the Board, general supervision and direction of the business and affairs of the Corporation. He shall at all times see that all resolutions or determinations of the Board are carried into effect. He may from time to time appoint, remove or change members of and discharge one or more advisory committees, each of which shall consist of such number of persons (who may, but need not, be directors or officers of the Corporation), and have such advisory duties, as he shall determine. He shall perform the duties incident to the office of the Chief Executive Officer and all such other duties as are specified in these By-laws or as shall be assigned to him from time to time by the Board.

SECTION 8. *President*. The President shall be the chief operating officer of the Corporation and shall perform such duties as shall be assigned to him from time to time by the Board or the Chief Executive Officer.

SECTION 9. Vice Presidents. The Board shall, if it so determines, elect one or more Vice Presidents (with such additional titles as the Board may prescribe), each of whom shall perform such duties as shall be assigned to him from time to time by the Chief Executive Officer or such other officer to whom the Vice President reports.

SECTION 10. General Counsel. The General Counsel shall be the chief legal officer of the Corporation and the head of its legal department. He shall, in general, perform the duties incident to the office of General Counsel and all such other duties as may be assigned to him from time to time by the Chief Executive Officer.

SECTION 11. Treasurer. The Treasurer shall have charge and custody of all funds and securities of the Corporation, shall keep full and accurate accounts of receipts and disbursements in books belonging to the Corporation, shall deposit all funds of the Corporation in such depositaries as may be designated pursuant to these By-laws, shall receive, and give receipts for, moneys due and payable to the Corporation from any source whatsoever, shall disburse the funds of the Corporation and shall render to all regular meetings of the Board, or whenever the Board may require, an account of all his transactions as Treasurer. He shall, in general, perform all the duties incident to the office of Treasurer and all such other duties as may be assigned to him from time to time by the Chief Executive Officer or such other officer to whom the Treasurer reports.

SECTION 12. Secretary. The Secretary shall, if present, act as secretary of all meetings of the Board, the Executive Committee and other committees of the Board and the Stockholders and shall have the duty to record the proceedings of such meetings in one or more books provided for that purpose. He shall see that all notices are duly given in accordance with these By-laws and as required by law, shall be custodian of the seal of the Corporation and shall affix and attest the seal to all documents to be executed on behalf of the Corporation under its seal. He shall, in general, perform all the duties incident to the office of Secretary and all such other duties as may be assigned to him from time to time by the Chief Executive Officer or such other officer to whom the Secretary reports.

SECTION 13. Controller. The Controller shall have control of all the books of account of the Corporation, shall keep a true and accurate record of all property owned by it, its debts and of its revenues and expenses, shall keep all accounting records of the Corporation (other than the accounts of

receipts and disbursements and those relating to the deposit or custody of funds and securities of the Corporation, which shall be kept by the Treasurer) and shall render to the Board, whenever the Board may require, an account of the financial condition of the Corporation. He shall, in general, perform all the duties incident to the office of Controller and all such other duties as may be assigned to him from time to time by the Chief Executive Officer or such other officer to whom the Controller reports.

SECTION 14. Bonds of Officers. If required by the Board, any officer of the Corporation shall give a bond for the faithful discharge of his duties in such amount and with such surety or sureties as the Board may require.

SECTION 15. Compensation. The salaries of the officers shall be fixed from time to time by the Board; provided, however, that the Chief Executive Officer may fix or delegate to others the authority to fix the salaries of any agents appointed by the Chief Executive Officer.

SECTION 16. Officers of Operating Companies or Divisions. The Chief Executive Officer shall have the power to appoint, prescribe the terms of office, the responsibilities and duties and salaries of, and remove, the officers of the operating companies or divisions other than those who are officers of the Corporation.

#### ARTICLE VI

#### CONTRACTS, CHECKS, LOANS, DEPOSITS, ETC.

SECTION 1. Contracts. The Board may authorize any officer or officers, agent or agents, in the name and on behalf of the Corporation, to enter into any contract or to execute and deliver any instrument, which authorization may be general or confined to specific instances; and, unless so authorized by the Board, no officer, agent or employee shall have any power or authority to bind the Corporation by any contract or engagement or to pledge its credit or to render it liable pecuniarily for any purpose or for any amount.

SECTION 2. Checks, etc. All checks, drafts, bills of exchange or other orders for the payment of money out of the funds of the Corporation, and all notes or other evidences of indebtedness of the Corporation, shall be signed in the name and on behalf of the Corporation in such manner as shall from time to time be authorized by the Board, which authorization may be general or confined to specific instances.

SECTION 3. Loans. No loan shall be contracted on behalf of the Corporation, and no negotiable paper shall be issued in its name, unless authorized by the Board, which authorization may be general or confined to specific instances. All bonds, debentures, notes and other obligations or evidences of indebtedness of the Corporation issued for such loans shall be made, executed and delivered as the Board shall authorize, which authorization may be general or confined to specific instances.

SECTION 4. Deposits. All funds of the Corporation not otherwise employed shall be deposited from time to time to the credit of the Corporation in such banks, trust companies or other depositaries as may be selected by or in the manner designated by the Board. The Board or its designees may make such special rules and regulations with respect to such bank accounts, not inconsistent with the provisions of these By-laws, as may be deemed expedient.

#### ARTICLE VII

#### CAPITAL STOCK

SECTION 1. Stock Certificates. Each Stockholder shall be entitled to have, in such form as shall be approved by the Board, a certificate or certificates signed by the Chairman of the Board or the Vice Chairman of the Board or the President or a Vice President and by the Treasurer or an Assistant Treasurer or the Secretary or an Assistant Secretary representing the number of shares of capital stock of the Corporation owned by such Stockholder. Any or all of the signatures on any such certificate may be a facsimile. In case any officer, transfer agent or registrar who has signed or whose facsimile signature has been placed upon any such certificate shall have ceased to be such before such certificate is issued, such certificate may be issued by the Corporation with the same effect as if such officer, transfer agent or registrar had been such at the date of its issue.

SECTION 2. List of Stockholders Entitled to Vote. The officer of the Corporation who has charge of the stock ledger of the Corporation shall prepare or cause to have prepared, at least 10 days before every meeting of Stockholders, a complete list of the Stockholders entitled to vote at the meeting, arranged in alphabetical order, and showing the address of each Stockholder and the number of shares registered in the name of each Stockholder. Such list shall be open to the examination of any Stockholder, for any purpose germane to the meeting, during ordinary business hours, for a period of at least 10 days prior to the meeting, either at a place within the city where the meeting is to be held, which place shall be specified in the notice of the meeting, or, if not so specified, at the place where the meeting is to be held. The list shall also be produced and kept at the time and place of the meeting during the whole time thereof, and may be inspected by any Stockholder of the Corporation who is present.

SECTION 3. Stock Ledger. The stock ledger of the Corporation shall be the only evidence as to who are the Stockholders entitled to examine the stock ledger, the list required by Section 2 of this Article VII or the books of the Corporation, or to vote in person or by proxy at any meeting of Stockholders.

SECTION 4. Transfers of Capital Stock. Transfers of shares of capital stock of the Corporation shall be registered on the stock record of the Corporation upon presentation and surrender, with a request to register transfer, of the certificate or certificates representing the shares properly endorsed by the holder of record or accompanied by a separate document signed by the holder of record containing an assignment or transfer of the shares or a power to assign or transfer the shares. The Board may make such additional rules and regulations as it may deem expedient concerning the issue and transfer of certificates representing shares of the capital stock of the Corporation.

SECTION 5. Lost Certificates. The Corporation may issue a new certificate or cause a new certificate to be issued in place of any certificate theretofore issued by the Corporation alleged to have been lost, stolen or destroyed, upon the making of an affidavit of that fact by the person claiming the certificate to be lost, stolen or destroyed. The Corporation may require the owner of such lost, stolen or destroyed certificate, or his legal representative, to give the Corporation a bond sufficient to indemnify it against any claim that may be made against it on account of the alleged loss, theft or destruction of any such certificate or the issuance of such new certificate.

SECTION 6. Fixing of Record Date. In order that the Corporation may determine the Stockholders entitled to notice of or to vote at any meeting of Stockholders or any adjournment thereof, the Board may fix a record date, which record date shall not precede the date upon which the resolution fixing the record date is adopted by the Board and which record date shall not be more than 60 nor less than 10 days before the date of such meeting. A determination of Stockholders of record entitled to notice of or to vote at a meeting of Stockholders shall apply to any adjournment of the meeting; provided, however, that the Board may fix a new record date for the adjourned meeting. In order that the Corporation may determine the Stockholders entitled to receive payment of any dividend or other distribution or allotment of any rights or the Stockholders entitled to exercise any rights in respect of any change, conversion or exchange of capital stock or for the purpose of any other lawful action, the Board may fix a record date, which record date shall not precede the date upon which the resolution fixing the record date is adopted, and which record date shall be not more than 60 days prior to such action.

SECTION 7. Registered Owners. Prior to due presentment for registration of transfer of a certificate representing shares of capital stock of the Corporation, the Corporation may treat the registered owner of such shares as the person exclusively entitled to vote, to receive dividends, to receive notifications, and otherwise to exercise all the rights and powers of an owner of such shares, except as otherwise provided by law.

#### ARTICLE VIII

#### FISCAL YEAR

The Corporation's fiscal year shall coincide with the calendar year.

#### ARTICLE IX

#### SEAL

The Corporation's seal shall be circular in form and shall include the words "Allied-Signal Inc., Delaware, 1985, Seal."

#### ARTICLE X

#### WAIVER OF NOTICE

Whenever any notice is required by law, the Certificate of Incorporation or these By-laws, to be given to any director, member of a committee or Stockholder, a waiver thereof in writing, signed by the person or persons entitled to said notice, whether before or after the time stated therein, shall be deemed equivalent thereto. Attendance of a person at a meeting shall constitute a waiver of notice of such meeting, except when the person attends a meeting for the express purpose of objecting, at the beginning of the meeting, to the transaction of any business because the meeting is not lawfully called or convened. Neither the business to be transacted at, nor the purpose of, any regular or special meeting of the Stockholders, directors, or members of a committee of directors need be specified in any written waiver of notice.

#### ARTICLE XI

#### **AMENDMENTS**

These By-laws or any of them may be amended or supplemented in any respect at any time, either (a) at any meeting of Stockholders, provided that any amendment or supplement proposed to be acted upon at any such meeting shall have been described or referred to in the notice of such meeting, or (b) at any meeting of the Board, provided that any amendment or supplement proposed to be acted upon at any such meeting shall have been described or referred to in the notice of such meeting or an announcement with respect thereto shall have been made at the last previous Board meeting, and provided further that no amendment or supplement adopted by the Board shall vary or conflict with any amendment or supplement adopted by the Stockholders. Notwithstanding the preceding sentence, the affirmative vote of the holders of at least 80% of the voting power of the then outstanding shares of capital stock of the Corporation entitled to vote generally in the election of directors, voting together as a single class, shall be required to amend or repeal, or adopt any provisions inconsistent with, Section 3 of Article II of these By-laws, Sections 2 or 10 of Article III of these By-laws, or this sentence.

#### ARTICLE XII

#### **EMERGENCY BY-LAWS**

SECTION 1. Emergency Board of Directors. In case of an attack on the United States or on a locality in which the Corporation conducts its business or customarily holds meetings of the Board or the Stockholders, or during any nuclear or atomic disaster, or during the existence of any catastrophe, or other similar emergency condition, as a result of which a quorum of the Board or a committee thereof cannot readily be convened for action in accordance with the provisions of the By-laws, the business and affairs of the Corporation shall be managed by or under the direction of an Emergency Board of Directors (hereinafter called the Emergency Board) established in accordance with Section 2 of this Article XII.

SECTION 2. Membership of Emergency Board of Directors. The Emergency Board shall consist of at least three of the following persons present or available at the Emergency Corporate Headquarters determined according to Section 5 of this Article XII: (i) those persons who were directors at the time of the attack or other event mentioned in Section 1 of this Article XII, and (ii) any other persons

appointed by such directors to the extent required to provide a quorum at any meeting of the Board. If there are no such directors present or available at the Emergency Corporate Headquarters, the Emergency Board shall consist of the three highest-ranking officers or employees of the Corporation present or available and any other persons appointed by them.

SECTION 3. Powers of the Emergency Board. The Emergency Board will have the same powers as those granted to the Board in these By-laws, but will not be bound by any requirement of these By-laws which a majority of the Emergency Board believes impracticable under the circumstances.

SECTION 4. Stockholders' Meeting. At such time as it is practicable to do so the Emergency Board shall call a meeting of Stockholders for the purpose of electing directors. Such meeting will be held at a time and place to be fixed by the Emergency Board and pursuant to such notice to Stockholders as it is deemed practicable to give. The Stockholders entitled to vote at the meeting, present in person or represented by proxy, shall constitute a quorum.

SECTION 5. Emergency Corporate Headquarters. Emergency Corporate Headquarters shall be at such location as the Board or the Chief Executive Officer shall determine prior to the attack or other event, or if not so determined, at such place as the Emergency Board may determine.

SECTION 6. Limitation of Liability. No officer, director or employee acting in accordance with the provisions of this Article XII shall be liable except for willful misconduct.



## ALLIED-SIGNAL AEROSPACE COMPANY

March 8, 1991

Los Angeles City Fire Department Hazardous Materials Section Room 990-B Los Angeles, California 90012

RE: Allied-Signal Electrodynamics Division 11600 Sherman Way North Hollywood, California 91605

Enclosed is the updated business plan for the referenced facility. Please note this is an amended business plan, submitted as a complete business plan.

If you have any questions or comments, please call me at (818) 503-3214.

Sincerely,

Nancy A. Girten

Senior Environmental Engineer

NG:ng

**Enclosure** 

041009

## CERTIFICATE OF DISCLOSURE OF HAZARDOUS SUBSTANCES

| APPLICATION MUST BE SUBMITTED WHEN A BUSINESS MOVES TO A NEW LOCATION OR CHAMGES OWNERSHIP.  COMPLETE ALL ITEMS BELOW. TYPE OR PRINT NEATLY. MAIL PARTS A, B AND C TO: LOS ANGELES CITY FIRE DEPARTMENT, HAZARDOUS HATERIALS SECTION, 200 MORTH MAIN STREET, ROOM 990-8, LOS ANGELES, CA. 90012.  LAFD # 026645-001-6   |   | INSTRUCTIONS: DO NOT   | USE THIS FORM FOR   | A CHANGE IN THE BUSINES  | SS LOCATION OR THE BUS   | SINESS OWNER, AN INITIAL   |
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| BUSINESS SITE ADDRESS 11600 Sherman May  LEGAL NAME OF BUSINESS Allied-Signal Aerospace Co., Electrodynamics Division  NAME OF BUSINESS OWNER Allied-Signal Inc.  NAME OF BUSINESS OWNER Allied-Signal Inc.  NAME OF BUSINESS OWNER Allied-Signal Inc.  NAME OF BUSINESS OWNER Allied-Signal Inc.  NAME OF ON-SITE MANAGERDATIC MARKOWITZ  PRIMARY EMERGENCY CONTACT Danilo Gutierrez  ALTERNATE EMER CONTACT  ALTERNATE EMER CONTACT  SOUTH MARKOWITZ  ALTERNATE EMER CONTACT  SOUTH MARKOWITZ  ALTERNATE EMER CONTACT  SOUTH MARKOWITZ  ALTERNATE EMER CONTACT  SOUTH MARKOWITZ  ALTERNATE EMER CONTACT  SUBJINESS AS (DBA) Allied-Signal Electrodynamics Divin Care of Allien-Signal, Inc.  BUSINESS AS (DBA) Allied-Signal Electrodynamics Divin Care of Allien-Signal, Inc.  BUSINESS HALLING ADDRESS 11600 Sherman May, N. Hollywood, CA 91605  NAME OF PROPERTY OWNER Allied-Signal, Inc.  MAILING ADDRESS P.O. BOX 1057R, Morristown, N.J. 07960  BRIEFLY DESCRIBE THE NATURE OF NAZARDOUS OPERATION  A PERMIT INFORMATION:  A L.A. FIRE DEPT. (FIRE PERMIT)  PERMIT INFORMATION:  A L.A. FIRE DEPT. (FIRE PERMIT)  PERMIT INFORMATION:  A L.A. FIRE DEPT. (FIRE PERMIT)  PERMIT INFORMATION:  A L.A. FIRE DEPT. (FIRE PERMIT)  PERMIT INFORMATION:  A L.A. FIRE DEPT. (FIRE PERMIT)  SIGNATURE OF ALL COUNTY MEALTH DEPT. (GENERATOR MAZARDOUS WASTE MULICR)  A PERMIT INFORMATION:  A L.A. FIRE DEPT. (FIRE PERMIT)  PERMIT INFORMATION:  A L.A. FIRE DEPT. (FIRE PERMIT)  SIGNATURE OF MAZARDOUS WASTE MULICR)  A L.A. FIRE DEPT. (FIRE PERMIT)  OS5765-98F  238.  3-4701/3  |   | COMPLETE ALL ITEMS BE  | TOW TYPE OF POTAT   | MEATIN MATE BARTE A  | B 4110 6 WB  |  |
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| DOING BUSINESS AS (DBA)  Allied-Signal Electrodynamics Divin Care of Allied-Signal, INC.  BUSINESS MAILING ADDRESS 11600. Sherman Way, N. Hollywood, CA 91605.  MAHE OF PROPERTY OWNER Allied-Signal, Inc.  MAILING ADDRESS P.O. BOX 1057R, Morristown, N.J. 07960.  BRIEFLY DESCRIBE THE NATURE OF HAZARDOUS OPERATION Manufacture of hydraulic actuator systems  A. L.A. FIRE DEPT. (FIRE PERHIT)  PERMIT INFORMATION:  SOUTH CRAST AIR QUALITY MANAGEMENT DISTRICT  SEE ALTACHED LIST THE G. E.P.A. IDENTIFICATION OF GENERATORS MAZARDOUS WASTE)  OR WASTES, LIST THE G. E.P.A. IDENTIFICATION OF GENERATORS MAZARDOUS WASTE OF E.P.A. IDENTIFICATION OF GENERATORS MAZARDOUS WASTE OF G. E.P.A. IDENTIFICATION OF GENERATORS MAZARDOUS WASTE OF G. E.P.A. IDENTIFICATION OF GENERATORS MAZARDOUS WASTE OF G. E.P.A. IDENTIFICATION OF GENERATORS MAZARDOUS WASTE OF G. E.P.A. IDENTIFICATION OF GENERATORS MAZARDOUS WASTE OF G. E.P.A. IDENTIFICATION OF GENERATORS MAZARDOUS WASTE OF G. E.P.A. IDENTIFICATION OF GENERATORS MAZARDOUS WASTE OF G. E.P.A. IDENTIFICATION OF GENERATORS MAZARDOUS WASTE OF G. E.P.A. IDENTIFICATION OF GENERATORS MAZARDOUS WASTE FACILITY-TSD)  I. REGIONAL WATER QUALITY CONTROL BOARD WASTE FACILITY-TSD)  J. CAL-SOSH (CARCINOGEN REGISTRATION)  K. OTHER AGENCY (SPECIFY) DHS EH WASTE DISPOSAL 3-901114-01  FERJURY, THAT THE ABOVE INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. I AGREE TO COMPLY WITH MAY BE MERCHETER ADDED.  FOR OFFICE USE ONLY  BOR OFFICE USE ONLY  RECEIVED BY INIT. DATE LAFD SIGNATURE  DATE  DATE  |   | NAME OF ON-SITE MANAGE   | enDaniel Markowi  | tz   | · · · · · · · · · · · · · · · · · · ·  | HONE (201) 403-2000  |
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| BUSINESS MAILING ADDRESS 11600 Sherman Way, N. Hollywood, CA 91605  NAME OF PROPERTY OWNER Allied-Signal, Inc.  MAILING ADDRESS P.O. Box 1057R, Morristown, N.J. 07960 PHONE (201) 455-2000  BRIEFLY DESCRIBE THE NATURE OF HAZARDOUS OPERATION Manufacture of hydraulic actuator systems  A. L.A. FIRE DEPT. (FIRE PERMIT) PERMIT NUMBER 388  A. L.A. FIRE DEPT. (FIRE PERMIT) BERNIT OF MAILING ACTUATION (INDUSTRIAL WASTE) PERMIT NUMBER 388  A PERMIT INFORMATION: C. SOUTH COAST AIR GUALITY MANAGEMENT DISTRICT SEE ALTICATED AND APPRINT INSUED FOR HAZAROUS SUBSTANCES F. L.A. COUNTY HEALTH DEPT. (GENERATORS HAZARDOUS WASTE) AUGUSTANCES F. A. IDENTIFICATION NO. (GENERATORS HAZARDOUS WASTE) AUGUSTANCES F. A. IDENTIFICATION NO. (HAZAROUS WASTE HAULER)  PERMIT NUMBER. G. E.P.A. IDENTIFICATION NO. (HAZAROUS WASTE FACILITY—TSD)  I. RESIONANCE G. E.P.A. IDENTIFICATION NO. (HAZAROUS WASTE FACILITY—TSD)  I. RESIONANCE G. E.P.A. IDENTIFICATION NO. (HAZAROUS WASTE FACILITY—TSD)  I. RESIONANCE G. E.P.A. (CHARTORIS HAZARDOUS WASTE PACILITY—TSD)  I. RESIONANCE G. E.P.A. (CHARTORIS HAZARDOUS WASTE PACILITY—TSD)  I. RESIONANCE G. E.P.A. (CHARTORIS HAZARDOUS WASTE PACILITY—TSD)  I. RESIONANCE G. E.P.A  |   | DOING BUSINESS AS (DBA   | ) <u>Allied-Signal</u>  | Electrodynamics Di   | VIN CARE OF ALLTED   | CICNAL THE   |
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| BRIEFLY DESCRIBE THE NATURE OF HAZARDOUS OPERATION Manufacture of hydraulic actuator systems    Received by Init.   Date   Lafb Signature   Date  |   | MAILING ADDRESS P.O.   | Box 1057R, Morr   | istown, N.J. 07960   |  | nue (201) 455-2000   |
| A. L.A. FIRE DEPT. (FIRE PERMIT)    PERMIT MUMBER   \$288 |   |  |   |  |  |  |
| A. L.A. FIRE DEPT. (FIRE PERMIT)  B. L.A. BUREAU OF SANITATION (INDUSTRIAL WASTE)  FORMIT INFORMATION:  C. SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  IF YOUR BUSINESS HAS  D. STATE HEALTH SERVICES (RADIOACTIVE MAY'L LICENSE)  A PERMIT ISSUED FOR  A. L.A. COUNTY HEALTH DEPT. (GENERATORS MAZAROUS WASTE)  OR WASTES, LIST THE  G. E.P.A. IDENTIFICATION NO. (GENERATORS HAZAROUS WASTE)  OR WASTES, LIST THE  G. E.P.A. IDENTIFICATION NO. (HAZAROUS WASTE HAULER)  I. REGIONAL WATER QUALITY CONTROL BOARD  J. CAL-OSHA (CARCIMOGEN REGISTRATION)  K. OTHER AGENCY (SPECIFY) _DHS _EH WASTE DISPOSAL  IT IS UNLAWFUL FOR ANY PERSON TO KNOWINGLY VIOLATE ANY PROVISION OF THIS ORDINANCE. I CERTIFY UNDER PENALTY OF ALL REGULATIONS, LAWS AND ORDINANCES PERTAINING TO OR RELATING TO THE BEST OF MY KNOWLEDGE. I AGREE TO COMPLY WITH THAT HAY BE HEREAFTER ADDED.  SIGNATURE OF BUSINESS OWNER OR AUTHORIZED REPRESENTATIVE/TITLE/ DATE  FOR OFFICE USE ONLY  RECCEIVED BY INIT DATE LAFD SIGNATURE   |   | •  |   |  |  | outer by been b  |
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#### BUSINESS INFORMATION

| Mature of Legal Busines:                      |   | PRESIDENT               | 3/5/91   |
|---|---|-------------------------|--|
|   |   |                         |  |
| mber of Employees: 550                        |   | Square Footage of Fa    | ::11ity: 238,010 sq.ft./                                       |
|   |   |                         |  |
| ANUFACTURE HYDRAULI                           | C ACTUATION SYSTEMS   |                         |  |
|   | re of the hazardous materials o                             | perations:              |  |
| •   | N. Hollywood, CA 91605                                      |                         |  |
| TALLING ADDRESS:                              | 11600 Sherman Way   |                         |  |
| un & Bradstreet Number: AILING ADDRESS:       |   |                         |  |
|   | ification (SIC) Code of Busines                             | 3728                    | ***  |
| mergency Contact:                             |   | 0706                    | W <u>(818) 503-3580</u><br>H FX-6: Personal Privacy            |
| Alternate                                     | Scott Myles   |                         | HFX-6: Personal Privacy  |
| Emergency Contact:                            | Danilo Gutierrez  |                         | EMERGENCY PHONE NUMBER<br>(24-HOUR)<br>W <u>(818) 503-3626</u> |
| on-orte manager:                              | Dan Markowitz   |                         | <u>(818, 503-3445</u>  |
| On-Site Manager:                              | Allied-Signal, Inc.  Dan Markowitz                          |                         | WORK PHONE NUMBER (201) 455-2000                               |
| Legal Business<br>Owner Name:                 | Allied Signal Inc   |                         | WORK PHONE NUMBER  |
|   |   |                         |  |
| Other On-Site Addresses:                      | N/A   |                         |  |
|   | N. Hollywood, CA 91605                                      |                         |  |
| Address Where Business Is Conducted:          | 11600 Sherman Way   |                         |  |
| Business Name:                                | Allied-Signal Aerospace                                     | e Co., Electrodyna      | mics Division  |
| Business Plan Number: THIS NUMBER MUST APPEAR | 026645-001-6 THIS IS YOUR CU<br>ON ALL BUSINESS PLAN FORMS! | RRENT BUSINESS PLAN NUM | BER.   |
| INSTRUCTIONS: Please supplied is accurate.    |   |                         | that the information, as                                       |
|   | complete and sign this form; y                              | our signature indicates |  |

(Rev. 8/89)

1. Make extra copies of Part A, Business Information; Part B, Amendment for Hazardous Materials Inventory; and Part C, Amendment for Hazardous Waste Inventory, to use as worksheets and for any future amendments.

2. BE SURE TO PHOTOCOPY THE COMPLETED AMENDMENT FOR YOUR RECORDS. Please mail parts A, B & C to:

LOS ANGELES CITY FIRE DEPARTMENT HAZARDOUS MATERIALS SECTION ROOM 990-B LOS ANGELES, CA 90012 ATTENTION AMENDMENTS

A business which has a Certificate of Disclosure of Hazardous Substances, shall file an amendment with the Fire Department <u>before</u>:

- A. The business handles a hazardous substance not previously disclosed to the Fire Department; and/or
- B. The business handles quantities of a hazardous substance which exceed the maximum quantities previously disclosed on the form on file with the Fire Department; and/or
- C. There is a change in the method or place of storage of a hazardous substance from that indicated on the form on file with the Fire Department such that continued reliance on the information could pose a threat to the environment or to the health or safety of individuals.
- D. The business changes their emergency contact information.

## COMPLETING PARTS A. B. & C

## PART A (BUSINESS INFORMATION)

THIS PAGE MUST BE FILLED OUT COMPLETELY. You must provide all of the requested information including the signature of the business owner or authorized representative and the signature of the on-site manager.

PARTS B & C (HAZARDOUS MATERIALS INVENTORY & HAZARDOUS WASTE INVENTORY REPORTS)

List <u>ONLY</u> those chemicals that are being <u>ADDED</u>, <u>CHANGED</u>, or <u>DELETED</u> from the inventory report that the Fire Department currently has on file. <u>DO NOT</u> provide inventory information on these forms that has not changed from the last report given to the Fire Department.

NOTE: It is your legal obligation to provide an immediate, VERBAL report of any significant RELEASE or THREATENED RELEASE of a hazardous substance to the Fire Department by dialing 911 AND the Office of Emergency Services (OES) at (800) 852-7550.

For further information regarding the completion of these forms, contact the Hazardous Materials Section of the Los Angeles Fire Department at (213) 485-7476 or 485-7477.

## BUSINESS EMERGENCY RESPONSE PLAN

Please answer the following questions clearly:

MOTIFICATION PROCEDURES - In the event of a reportable hazardous materials or waste release or threatened release, your business is required by State Law to provide an immediate verbal report to:

- 1. The Los Angeles City Fire Department: 9-1-1
- 2. The State Office of Emergency Services: (OES)1-800-852-7550 or 1-916-427-4341

Notifications will normally be made by Manager of Security (or designee)

Ron Borgstrom

If your business has an additional emergency response notification system, explain here.

- 3. How will the employees who are responsible for responding to a release or spill be notified of the emergency?

  Security Manager (or designee) will immediately activate internal facility alarms or communication systems to notify facility personnel.
- 4. In the event of a spill or release, how will immediate notification and evacuation of the business be done? Include a description of the steps needed to evacuate employees from your facility didition to a sweep of the area by the Emergency Response Team (ERT), supervisors will be notified by telephone. Employees will be evacuated through the nearest exit from work stations to the rear parking lot (primary evacutation area) or the front guard house (alternate evacuation area). During evacuation, the front guard house will be the central communication and coordination area.

## MEDICAL ASSISTANCE

5. List 2 local emergency medical facilities that will be used, EXCLUDING PARAMEDICS AND 911.

Name of emergency medical facility: St. Joseph's Occupational Health Center

Address: 3413 Pacific Ave., Burbank

\_\_ Phone: <u>(818) 953-4400</u>

Name of emergency medical facility: Pacifica Hospital

Address: 9449 San Fernando Rd., Sun Valley Phone: (818) 767-3310

PREVENTION - Actions your business will take to prevent a hazard from occurring.

6. Describe the kinds of hazards associated with the hazardous materials present at your facility. What actions would your business take to prevent these hazards from occurring? You may include a discussion of safety and storage procedures.

Hazards associated with hazardous materials present at EDD include:

1) fire; 2) chemical burns

Safety and storage procedures include:

1) All hazardous material/waste is stored and used in containment berm areas. (Rev. 8/89)

- 2. All hazardous material/waste (including extremely hazardous material/waste) is stored in locked areas.
  - 3. Hazardous material is segregated during storage.
  - 4. Training has been provided for the handling and storage of hazardous material/waste.

MITIGATION (REDUCE THE HAZARD) - What is done to lessen the harm or the damage to persons, property, or the environment, and prevent what has occurred from getting worse or spreading.

7. What is the immediate response to a leak, spill, fire, explosion or airborne release at your business? The emergency coordinator will immediately identify the character, exact source, amount, and extent of any released material. In addition, assessment will be conducted to determine potential hazards (direct and indirect) to human health and/or environment that may result from the release, fire or explosion.

## ABATEMENT - What you do to stop the hazard.

8. At your facility, how do you handle the complete process of stopping a release, cleaning up, and disposing of the released materials?

The emergency coordinator may, if necessary, shutdown processes and operations which may contribute to the recurrence and/or spreading of the release. In addition, provisions will be provided for treating and containing recovered waste, or any other material resulting from a release, fire or explosion at the facility using a vacuum sump pump (if compatible with release), absorbent materials, or neutralizing agents. Proper storage and disposal of the hazardous waste will be conducted in accordance with applicable state and federal regulations. On-call emergency response will be provided through an outside source (contract).

EMPLOYEE TRAINING - Employee training is designed to teach employees about the following four categories:

- 1. Handling hazardous materials safely
- 2. Which emergency agencies to contact
- 3. Use of emergency clean-up equipment and supplies
- 4. Evacuation procedures

## Employee Training Part 1 - Safety

- 9a. Describe the training NEW employees recieve in handling and using the hazardous materials and waste that are part of your operation. How is this documented and where is the documentation kept?

  All new employees attend hazard communication training which includes labeling, storage, handling practices, and the location of specific chemical information. When transferring to a new department, each employee is instructed by the supervisor on specific chemical hazards in the department.

  All employees involved in the direct handling of hazardous waste are given additional training.

  Documentation is provided on participant registry forms, and kept on file in the Health, Safety and Environmental Department.
- 9b. How often does <u>REFRESHER</u> training occur, how is it conducted, and what subjects are covered? How is this documented and where is the documentation kept?

  Hazard communication refresher training is conducted annually.

  An additional 8-hour refresher course is conducted annually for employees involved in the direct handling of hazardous waste, and included labeling, storage, handling practices, and the location of specific chemical information. Documentation is provided on participant registry forms, and kept on file in the Health, Safety and Environmental Départment.

# Employee Training Part 2 - Emergency Contact

10a. Are <u>NEW</u> employees trained to know which emergency response agencies to contact if an emergency occurs? Are specific individuals or teams designated to perform this function? Briefly describe.

Emergency contact training is handled by individual department supervisors. All employees are instructed to call security which is in operation 24 hours a day, 7 days per week.

An Emergency Response Team (ERT) has been established consisting of at

An Emergency Response Team (ERT) has been established consisting of at least seven individuals trained in CPR and First-Aid to stabilize an emergency situation until advanced professional help arrives.

10b. How often does <u>REFRESHER</u> training occur, how is it conducted, and what information is covered? A refresher course is conducted annually (averaged) through memorandums and practice drills.

# Employee Training Part 3 - Emergency Equipment and Supplies

lia. How are <u>NEW</u> employees trained in the use of emergency equipment and supplies needed to stop spills, leaks, or fires? What kind of equipment and supplies are they taught to use to stop the release?

All new employees required to respond with emergency equipment are trained in the use of personal protective equipment, absorbent, and fire extinguishing equipment.

11b. How often is <u>REFRESHER</u> training conducted in this subject area? Are drills ever conducted? A refresher course is conducted annually (averaged), and includes emergency practice drills.

# Employee Training Part 4 - Evacuation

12. Are ALL employees given initial and refresher training on evacuation procedures?  $\frac{X}{x}$  yes  $\frac{X}{x}$ 

NOTE: Your business is required by State Law to keep a copy of this Business Plan, including the inventory.

Describe where this copy is located at your business.

Health, Safety and Environmental Department

SIGNATURE OF BUSINESS OWNER OR AUTHORIZED REPRESENTATIVE:

Patril Mithly DATE: 3/5/91



HEADQUARTERS, 9150 FLAIR DR., EL MONTE, CA 91731

OCTOBER 15 + 1990

ALLIED-SIGNAL AEROSPACE CO, ELECTR.DIV ID - 011217 11600 SHERMAN WAY NORTH HOLLYWOOD CA 916050000

### PERMIT RENEWALS

| PERMIT       |  | APPLIC | EXPIRATION |
|--------------|--|--------|------------|
| REBMUN       | DESCRIPTION                              | NUMBER | DATE       |
| ***          |  |        | ~~~~~      |
| 11 A O 4 1 5 | CD2AV BOOTH DATES AND COLUENT            | 107600 | 00/01/01   |
| M42415       | SPRAY BOOTH PAINT AND SOLVENT            | 125602 | 08/01/91   |
| M42415       | OVEY, DRYING                             | 125503 | 08/01/91   |
| M53248       | STORAGE TANK 1,1,1 TRICHLOROETHANE       | 128763 | 08/01/91   |
| M60608       | DEGREASER OTHER SOLVENT (>1 LB VOC/DAY)  | 129765 | 08/01/91   |
| M51945       | DEGREASER 111 TRICHLOROETHANE <=1LB/DVOC | 140611 | 08/01/91   |
| M49729       | OVEN, BAKING                             | 140612 | 08/01/91   |
| M60723       | DEGREASER 111 TRICHLOROETHANE <=1LB/DVOC | 144784 | 08/01/91   |
| 29571        | TANK . SURFACE PREPARATION - OTHER ACIDS | 192303 | 08/01/91   |
| J29948       | TANK, SURFACE PREPARATION OTHER ACIDS    | 192304 | T08/01/91  |
| 020601       | STORAGE TANK CRANKCASE OIL               | 217270 | 08/01/91   |
| D21431       | POLYURETHANE PACKAGING                   | 217271 | 08/01/91   |
| P05144       | OVEN, BAKING                             | A23431 | 08/01/91   |
| P20543       | ABRASIVE BLASTING (CABINET/MACHINE/ROOM) | A41782 | 08/01/91   |
| P36679       | SPRAY BOOTH PAINT AND SOLVENT            | A57662 | 08/01/91   |
| P43029       | DEGREASER OTHER SOLVENT (>1 LB VOC/DAY)  | A64027 | 08/01/91   |
| P62837       | BAGHOUSE. AMBIENT TEMPERATURE            | A84657 | 08/01/91   |

Š YAUr. 0-100 LATUR OLDOTO INSTRICTIONS: READ ALL THE INSTRUCTIONS BELOW AND PHOTOCOPY EXTRA COPIES OF THIS FORM BEFORE COMPLETING IT. (REPORT HAZARDOUS WASTE OM PARY C)

1. COMPLETE A SEPARATE FORM FOR EACH BUILDING, OUTDOOR AREA, ROOM OR UNDERGROUND TANK IN WHICH MAZARDOUS MATERIALS INVENTORY IS BEING AMENDED USE BOX BELOW TO SPECIFY THE LOCATION OF THE HAZARDOUS MATERIALS FORM.

LOCATION OF HAZARDOUS MATERIALS: COMPLETE ALL ITEMS IN THIS BOX

Allied-Signal Electrodynamics Division BUSINESS NAME

ADDRESS OUTDOOR AREA, BUILDING MAME, OUTDOOR AREA, OR UNDERGROUND TANK NUMBERS.

CA 91605

11600 Sherman Way, N.Hollywood,

N/A ROOM NAME OR NUMBER

1MCLU06 COMPLETE ITEMS 1-10 FOR EACH HAZARDOUS MATERIAL TO BE AMENDED THAT IS STORED OR HANDLED AT THE LOCATION SPECIFIED ABOVE.

RAW MATERIALS, FINISHED CHEMICAL PRODUCTS, CHEMICALS MANUFACTURED OR REPACKAGED, AND CHEMICALS DISTRIBUTED.

MAKE SURE YOU INDICATE WHETHER THE INFORMATION SHOULD BE ADDED, CHANGED OR DELETED FROM THE CURRENT DISCLOSURE THAT THE FIRE DEPARTMENT HAS ON FILE BY MARKING THE APPROPRIATE CODE UNDER ITEM #1.

THE CODES IN ITEM 4, 5 and 7 CAN BE FOUND ON THE ATTACHED TABLE OF CODES.

ADDITIONAL INSTRUCTIONS: ITEM 1: CHECK APPROPRIATE CODE: "A" INDICATES A PRODUCT THAT IS BEING ADDED TO YOUR EXISTING INVENTORY, "C" INDICATES A CHANGE IN THE INFORMATION THAT WAS REPORTED FOR THAT PRODUCT, "D" INDICATES A PRODUCT THAT HAS BEEN DELETED. ENTER THE CHEMICAL OR PRODUCT MAME. ILEM 2: ESTIMATE ANAMAL ANOLED OR STORED AT ANY ONE TIME ANY ONE TIME ABOVE LOCATION; INCLUDE UNITS (POUNDS, GALLONS, CUBIC FEET). ILEM 4: LIST ALL THE TYPES OF CONTAINERS USED TO STORE THE PRODUCT (USE TABLE 1). ILEM 5: CHECK PHYSICAL HAZARDS (USE TABLE 2). ILEM 6: CHECK THE APPROPRIATE PHYSICAL STATE, ("S" FOR SOLID: "L" FOR LIQUID; "G" FOR GAS). ILEM 7: ENTER THE ONE HAZARD CLASS THAT APPLIES TO THE PRODUCT (USE TABLE 3). ILEM 8: CHECK THIS BOX IF PRODUCT OR ANY INGREDIENT IS EXTREMELY HAZARDOUS SUBSTANCES). ILEM 7: ENTER THE CAS APPLIES TO FEM 10; ENTER THE CAS APPLIES TO THE PRODUCT OF CONCENTRATION. ILEM 10; ENTER THE CAS APPLIES TO THE PRODUCT OF CONCENTRATION. ILEM 10; ENTER THE CAS APPLIES TO THE PRODUCT OF CONCENTRATION. ILEM 10; ENTER THE CAS APPLIES THE TABLE APPLIES TO THE PRODUCT OF CONCENTRATION. ILEM 10; ENTER THE CAS APPLIES TO THE PRODUCT OF CONCENTRATION. ILEM 10; ENTER THE CAS APPLIES THE THE THE TABLE APPLIES TO THE PRODUCT OF CONCENTRATION. ILEM 10; ENTER THE CAS APPLIES THE THE TABLE APPLIES TO THE PRODUCT OF CONCENTRATION. ILEM 10; ENTER THE CAS APPLIES TO THE PRODUCT OF THE PRODUCT OF CONCENTRATION. ILEM 10; ENTER THE CAS APPLIES TO THE PRODUCT OF THE PRODUC (CHEMICAL ABSTRACT SERVICE) MAMBERS FOR EACH HAZARDOUS INGREDIENT

|                            | 在推销有条件的现在分词 化电阻性电阻性电阻性电阻性电阻性 医乳球球球球球球球球球球球球球球球球球球球球球球球球球球球球球球球球球球球球 |         |                               |              |               | ****           |   | A 中国各种市场市场市场市场市场市场市场市场市场市场市场市场市场市场市场市场市场市场市场 |
|----------------------------|---|---------|-------------------------------|--------------|---------------|----------------|---|--|
| A CHENICAL C OR C OR C OR  |   |         |                               |              |               |                | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT    |
|                            | P-3576 1,1,   | 1 Tric  | 1,1,1 Trichloroethane         | hane         |               |                |   | <b>&gt;</b>                                  |
| (2)<br>MAXIMIN<br>GLANTITY | (3)<br>TOTAL<br>YEAR! Y   | STORAGE | STORAGE HEALTH & PHYS. HAZARD | (6)<br>PHYS. | (7)<br>HAZARD | (8)<br>EXTREM- | 1,1,1 Trichloroethane 94,                               | 71-55-6                                      |
| ANY TIME                   | QUANTITY  | 3       | HAZARDS SIAIE CLASS           |              | ŝ             | ZARDOUS        |   | ક્ય  |
|                            |   |         | ×þ                            | 2            |               | •              |   | 34   |
| 1000 gal.                  | 2,500 gal.  | ما      | 4  <br>4                      | ×            | 밁             | 1              |   | **   |
|                            |   |         | . S.                          | 9            |               |                |   | 14   |
|                            |   |         | *******                       |              |               |                |   | · 中心 在 中 · 中心 · 中心 · 中心 · 中心 · 中心 · 中心 ·     |
| A OFFICE                   |   |         |                               |              |               |                | (9) HAZARDOUS CHEMICAL INGREDIENTS &                    | (10)<br>CAS NUMBERS OF                       |
|                            |   |         |                               |              |               |                | PERCENTAGE OF EACH                                      | EACH INGREDIENT                              |
| (2)<br>HAXIMM              | (3)<br>TOTAL  | STORAGE | STORAGE HEALTH &              | (6)<br>PAYS. | (7)<br>HAZARD | (8)<br>EXTREM- |   | PR SH  |
| ANY TIME                   | QUANTITY  | IYPES   | MYSICAL STATE CLASS           | STATE        | CLASS         | ELY HA-        |   | - 1-4  |
|                            |   |         |                               | <u>د</u>     |               |                |   | 14   |
|                            |   |         |                               | ار           | .             |                |   | *  |

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FOR OFFICE USE ONLY:

| ART B AMENDHE                          | TOR HAZARDOUS MATERIALS INVENTORY   | TERIALS                 | INVENTORY                              | _                     |                        |                                       |  | LAFD # 026645-101-6                                      |            | PAGE OF                                |
|--|---|-------------------------|--|-----------------------|------------------------|---------------------------------------|--|--|------------|--|
| OCATION OF HAZAR                       | OF MAZARDOUS MATERIALS: CO  | COMPLETE ALL ITEMS      | ALL ITEMS                              | ITEMS IN THIS         | 100                    |                                       |  |  |            |  |
| OOM NAME OR NUMBER                     | BER S3  | 70173                   | y Halli I CS                           | SIVIS                 | BUILDING OR UNDER      | GROUND TA                             | ADDRESS LDING NAME, OUTDOOR AREA, UNDERGROUND TANK NUMBERS | 11600 Sherman May, II.<br>Acid Room                      | lollywood. | L. CA. 91605                           |
| · 我就是我们的现在分词,                          | 如果我们的现在分词,我们是我们是我们的,我们们的有些,我们们是我们的,我们们们的是我们的,我们们们的是我们的,我们们们的是我们们的,我们们们们们们们们们们 | ****                    | ******                                 | 在 在 在 在 在 在 在         | *****                  | ********                              |  |  |            |  |
| CHEMICAL OR PRODUCT NAME               | Ammonium Nitrate  | ate.                    |  |                       |                        |                                       | HAZAI  | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH  |            | CAS NUMBERS O<br>EACH INGREDIE         |
| (2)<br>MAXIMUM<br>QUANTITY<br>ANY TIME | (3)<br>TOTAL<br>YEARLY<br>QUANTITY  | STORAGE<br>TYPES        | (5)<br>HEALTH<br>PHYSICA               | 4 PHYS.               | (7)<br>HAZARD<br>CLASS | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS. | 1 1 1  | ammonlum nitrate   | 1001       | 6484-52-2                              |
| 80 lb.                                 | .00 lb.   | þ                       | - NO.                                  | 젊.                    | 38                     | • ,                                   |  |  | <b>*</b>   |  |
|  |   |                         | J 4 R                                  | ل ا                   |                        | 1                                     |  |  | **         |  |
| (1)                                    | ē   | IN REPRESE              | ****                                   | ****                  | *****                  | ****                                  | ********   | *************************************                    |            |  |
| CHEMICAL OR OR PRODUCT NAME            | Nickel Sulfamate  | ate (Tech               | ch Grade)                              | (e)                   |                        |                                       | HAZA   | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH  |            | (10)<br>CAS NUMBERS 0<br>EACH INGREDIE |
| (2)<br>MAXIMUM<br>QUANTITY<br>ANY TIME | (3)<br>TOTAL<br>YEARLY<br>QUANTITY  | (4)<br>STORAGE<br>TYPES | (5)<br>HEALTH<br>PHYSICA<br>HAZARDS    | (6)<br>PHYS.<br>STATE | (7)<br>HAZARD<br>CLASS | (8)<br>EXTREM-<br>ELY HA-<br>ZABDOUS  | nickel   | sulfamate  | 52 4       | 13770.89.3                             |
| 20 gal.                                | 20 gal.   | В                       | *                                      | <u>د</u> ا            |                        |                                       |  |  | 9 19       |  |
|  |   |                         | 1W 4 W                                 | ال لا                 | 9                      |                                       |  |  | 34 34      |  |
|  | 在企业技术的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的                                 | ****                    |  |                       |                        | " 我 我 我 我 我 我 我 我                     | *******  | 在 医电影 医外部 医阿拉克氏 化二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基 | BARBRARAS  | · · · · · · · · · · · · · · · · · · ·  |
| CHEMICAL OR PRODUCT                    | Aluminum Oxide  | a)                      |  | •                     |                        |                                       | HAZAR  | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH  |            | (10)<br>CAS NUMBERS 0<br>EACH INGREDIE |
| (2)                                    | (3)   |                         |  |                       |                        |                                       | aluminum   | ım oxide   | ¥ +66      | 1344-28-1                              |
| MAXIMUM<br>QUANTITY<br>ANY TIME        | TOTAL<br>YEARLY<br>QUANTITY   | STORAGE<br>TYPES        | (5)<br>HEALTH &<br>PHYSICAL<br>HAZAROS | (6)<br>PHYS.<br>STATE | (7)<br>HAZARD<br>CLASS | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS  |  |  | * *        |  |
| 1000 lb.                               | 2000 lb.  | 8                       | ×  ×                                   | ×                     | 10                     |                                       |  |  | थ भ्य      |  |
|  |   |                         | m 4                                    | ار                    | 1                      |                                       | : -  |  | >4         |  |
|  |   |                         | 2                                      | ای                    |                        |                                       |  |  | 32         |  |

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<u>INSIRUCTIONS</u>: READ ALL THE INSTRUCTIONS BELOW AND PHOTOCOPY EXTRA COPIES OF THIS FORM BEFORE COMPLETING IT. (<u>REPORT HAZARDOUS WASTE ON PART C</u>)

1. COMPLETE A SEPARATE FORM FOR EACH BUILDING, OUTDOOR AREA, ROOM OR UNDERGROUND TANK IN WHICH HAZARDOUS MATERIALS INVENTORY IS BEING AMENDED.
USE BOX BELOW TO SPECIFY THE LOCATION OF THE HAZARDOUS MATERIALS LISTED ON THIS FORM.

LOCATION OF HAZARDOUS MATERIALS: COMPLETE ALL ITEMS IN THIS BOX.

North Hollywood 91605 11600 Sherman Way SS. ADDRESS BUILDING NAME, OUTDOOR AREA, OR UNDERGROUND TANK NUMBERS. BUSINESS NAME Allied-Signal Electrodynamics Divisior N/A ROOM NAME OR NUMBER

COMPLETE ITEMS 1-10 FOR EACH HAZARDOUS MATERIAL TO BE AMENDED THAT IS STORED OR HANDLED AT THE LOCATION SPECIFIED ABOVE. INCLUDE
RAW MATERIALS, FINISHED CHEMICAL PRODUCTS, CHEMICALS MANUFACTURED OR REPACKAGED, AND CHEMICALS DISTRIBUTED.
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|--|---|-------------------------|--|----------------------------------|------------------------|--------------------------------------|---|--|---|
| C CHENICAL C OR D PRODUCT NAME         | CARBON DIOXIDE                                | (IDE                    |  |                                  |                        | ·                                    | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH |  | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT |
| (2)<br>MAXIMUH<br>QUANTITY<br>ANY TIME | (3)<br>101AL<br>YEARLY<br>QUANTITY            | (4)<br>STORAGE<br>TYPES | (4) (5) (6) (7) STORAGE HEALTH & PHYS. HAZARI TYPES PHYSICAL STATE CLASS HAZARDS | (6)<br>PHYS.<br>STATE            | (7)<br>HAZARD<br>CLASS | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS | Carbon Dioxide<br>Nitrogen                              | 99.5                                   | 124-38-9<br>7727-37-9                     |
| 12,000 lbs.                            | 12,000 lbs.                                   | . 4                     | -0040<br>  | اً ک                             | 14                     |                                      |   | * * *                                  |   |
|  |   |                         |  |                                  |                        |                                      |   |  |   |
| C C C C C C C C C C C C C C C C C C C  | NITROGEN                                      |                         |  |                                  |                        |                                      | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH | 1                                      | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT |
| (2) MAXIMIN QUANTITY ANY TINE          | (3)<br>TOTAL<br>YEARLY<br>QUANTITY            | (4)<br>STORAGE<br>TYPES | STORAGE HEALTH & PHYS. HAZARD TYPES PHYSICAL STATE CLASS                         | (6) (7) PHYS. HAZARI STATE CLASS | (7)<br>HAZARD<br>CLASS | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS | Nitrogen .  | 100 ×                                  | 7727-37-9                                 |
| 1500 gal.                              | 18,000 gal                                    | 41                      | ¥″   | × [                              | 1A                     | ı                                    |   | 14 14 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |   |

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FOR OFFICE USE ONLY;

| PART B AMENDHE FO                               | FOR HAZARDOUS MATERIALS INVENTORY     | TERIALS                 | INVENTORY                              |                |                           |                                      | C                                     | LAFD # 026645-001-6                                     | PAGE OF   |
|---|---------------------------------------|-------------------------|--|----------------|---------------------------|--------------------------------------|---------------------------------------|---|---|
| LOCATION OF HAZARDOU                            | HAZARDOUS MATERIALS: CO               | COMPLETE /              | ALL ITEMS IN THIS BOX                  | IN THI         | S BOX                     |                                      |                                       | . 1   |   |
| KUSINESS NAME All                               | Allied-Signal E                       | lectrod                 | Electrodynamics                        | Divi           | ion                       |                                      | ADORESS                               | 11600 Sherman Way, N.                                   | Hollywood, CA 91605   |
| ROOM NAME OR NUMBER                             | 53                                    |                         |  |                | BUILDING NA<br>OR UNDERGR | S NAME, OI                           | IAHE, OUTDOOR AREA, OUND TANK NUMBERS | A Acid Room   |   |
| <b>医电影电影 医电影 医电影 医电影 医电影 医电影 医电影 医电影 医电影 医电</b> | "我就是我们是我们的我们的我们的                      | ****                    | ****                                   | ****           |                           | ******                               |                                       |   |   |
| C CHEMICAL OR OR OR OR                          | Ammonium Hydroxide                    | oxide                   |  |                |                           |                                      | Z\$                                   | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH | CAS NUMBERS OF EACH INGREDIENT  |
| NAME (2)  | (3)                                   |                         |  |                |                           |                                      | ammonium                              | hydroxide   | 59.3 ★ 1336-21-6  |
| MAXIMUM<br>QUANTITY<br>ANY TIME                 | 15/<br>TOTAL<br>YEARLY<br>QUANTITY    | STORAGE                 | (5)<br>HEALTH &<br>PHYSICAL            | (6)<br>L PHYS. | (7)<br>HAZARD<br>CLASS    | (8)<br>EXTREM-<br>ELY HA-            |                                       | as ammonia) 28  | 28.8  |
| 200 lb.   | 10 0 lb.                              | Œ                       | ×                                      | 8              |                           |                                      |                                       |   |   |
|   |                                       |                         | /m =                                   | 첫              | -2A                       | - 1                                  |                                       |   | **  |
|   |                                       | 1                       | - N-                                   | او             |                           |                                      | ,                                     |   |   |
| - 有有名名名名名名名名名名名名名名名名名名名名名名名名名名名名名名名名名名名         | · · · · · · · · · · · · · · · · · · · |                         | *****                                  | TREPER         | ****                      | *****                                | ****                                  |   |   |
| CHEMICAL<br>OR<br>PRODUCT                       |                                       |                         |  |                |                           |                                      | FAZ.                                  | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH | CAS NUMBERS OF EACH INGREDIENT  |
| (2)   | (3)                                   |                         |  |                |                           |                                      |                                       |   | **  |
| MAXIMUM<br>QUANTITY<br>ANY TIME                 | (3)<br>TOTAL<br>YEARLY<br>QUANTITY    | (4)<br>STORAGE<br>TYPES | (5)<br>HEALTH &<br>PHYSICAL<br>HAZARDS | (6)<br>PHYS.   | (7)<br>Hazard<br>Class    | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS |                                       |   |   |
|   |                                       |                         | ا۔                                     | S              |                           | •                                    |                                       |   |   |
| ***************************************         | •                                     |                         | 7E.                                    | ار ا           |                           | 1                                    |                                       |   | *   |
|   |                                       |                         | 4 %                                    | <u></u>        |                           |                                      |                                       |   | 28  |
| · · · · · · · · · · · · · · · · · · ·           |                                       |                         | ******                                 | ****           | ****                      | <b>有有有有有有有</b>                       | *****                                 | <b>计算程序设计设计设计设计设计设计设计设计设计设计设计设计设计设计设计设计设计设计设计</b>       | 在自己的现在分词,我们是有一种,我们也是有一种的,我们也是有一种的,我们也是有一种的,我们也是有一种的,我们也是有一种的,我们也是有一种的,我们也是有一种的,我们也会会会的一种,我们也会会会的一种,我们也会会会的一种的,我们也会会会会会会会会会会会。 |
| CHEMICAL OR PRODUCT NAME                        |                                       |                         |  | •              |                           |                                      | HAZA                                  | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH | CAS NUMBERS OF<br>EACH INGREDIENT   |
|   | (3)<br>TOTAL<br>YEARLY                | (4)<br>STORAGE<br>TYPES | (5)<br>HEALTH &                        | (6)<br>PHYS.   | (7)<br>HAZARD             | (8)<br>EXTREM-                       |                                       |   |   |
| ANY TIME  | QUANTITY                              | ?                       | HAZARDS                                | JAIR           | \$\$3.                    | ZARDOUS                              |                                       |   |   |
|   |                                       |                         |  | 2              |                           |                                      |                                       |   | 3.2   |
|   |                                       |                         | W 4 70                                 | ل ار           | 1                         | 1                                    | :-                                    |   | PE 25   |
| IR OFFICE USE ONLY:                             | INSP. ID                              |                         | INSP.                                  | INT.           |                           | DATE                                 |                                       | DATA ENTRY ID   | DATA ENTRY INIT DATE  |

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NSTRUCTIONS: READ ALL THE INSTRUCTIONS BELOW AND PHOTOCOPY EXTRA COPIES OF THIS FORM BEFORE COMPLETING IT. (REPORT MAZARDOUS WASTE ON PART C)

1. COMPLETE A SEPARATE FORM FOR EACH BUILDING, OUTDOOR AREA, ROOM OR UNDERGROUND TANK IN WHICH HAZARDOUS MATERIALS INVENTORY IS BEING AMENDED.

USE BOX BELOW TO SPECIFY THE LOCATION OF THE HAZARDOUS MATERIALS LISTED ON THIS FORM.

OCATION OF HAZARDOUS MATERIALS: COMPLETE ALL ITEMS IN THIS BOX.

Electrodynamics Division USINESS NAME Allied-Signal

ADDRESS 11600 Sherman May, M. Hollywood,

91605

Acid Room BUILDING NAME, OUTDOOR AREA, OR UNDERGROUND TANK NUMBERS. OOM NAME OR NUMBER

COMPLETE ITEMS 1-10 FOR EACH HAZARDOUS MATERIAL TO BE AMENDED THAT IS STORED OR HANDLED AT THE LOCATION SPECIFIED ABOVE. INCLUDE
RAW MATERIALS, FINISHED CHEMICAL PRODUCTS, CHEMICALS MANUFACTURED OR REPACKAGED, AND CHEMICALS DISTRIBUTED.
 MAKE SURE YOU INDICATE WHETHER THE INFORMATION SHOULD BE ADDED, CHANGED OR DELETED FROM THE CURRENT DISCLOSURE THAT THE FIRE DEPARTMENT HAS ON FILE BY MARKING THE APPROPRIATE CODE UNDER ITEM #1.
 THE CODES IN ITEM 4, 5 and 7 CAN BE FOUND ON THE ATTACHED TABLE OF CODES.

DDITIONAL INSTRUCTIONS: ITEM 1: CHECK APPROPRIATE CODE: "A" INDICATES A PRODUCT THAT IS BEING ADDED TO YOUR EXISTING INVENTORY, "C" INDICATES A CHANGE INFORMATION THAT WAS REPORTED FOR THAT PRODUCT, "D" INDICATES A PRODUCT THAT HAS BEEN DELETED. ENTER THE CHEMICAL OR PRODUCT NAME.

STIMATE MAXIMUM QUANTITY HANDLED OR STORED AT THAT PRODUCT THE ABOVE LOCATIONS INCLUDE UNITS (POUNDS, GALLONS, CUBIC FEET). ILEM 4: LIST ALL THE TYPES OF CONTAINERS USED TO STORE THE RODUCT (USE TABLE 1). ILEM 5: CHECK PHYSICAL HAZARDS (USE TABLE 1). ILEM 5: CHECK PHYSICAL HAZARDS (USE TABLE 2). ILEM 6: CHECK THIS BOX IF PRODUCT OR SOLID; "G" FOR LIQUID; "G" OR GAS). ILEM 7: ENTER THE ONE HAZARD CLASS THAT APPLIES TO THE PRODUCT (USE TABLE 3). ILEM 8: CHECK THIS BOX IF PRODUCT OR ANY INGREDIENT IS EXTREMELY AZARDOUS SUBSTANCES). ITEM 9: ENTER INGREDIENTS AND PERCENT OF CONCENTRATION. ILEM 10: ENTER THE CAS THEHICAL ABSTRACT SERVICE) NUMBERS FOR EACH HAZARDOUS INGREDIENT (USE YOUR MSDS).

| CHEMICAL OR OR      | Alodine 1200                          |         |                               |              |               |                    | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH | 1S &     | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT |
|---------------------|---------------------------------------|---------|-------------------------------|--------------|---------------|--------------------|---|----------|---|
| NAME                | (3)                                   |         |                               |              |               |                    | chromic acid  | 20-3.) * | 20-3.) 🗶 1333-82-0                        |
| HAXIMUM<br>OHANTITY | TOTAL<br>YEARIY                       | STORAGE | STORAGE HEALTH & PHYS. HAZARD | (6)<br>PHYS. | (7)<br>HAZARD | (8)<br>Extrem-     | -   | 15-20 ×  | 13746-66-2                                |
| ANY TIME            | QUANTITY                              | TPES    | PHYSICAL STATE CLASS HAZARDS  | STATE        | CLASS         | ELY HA-<br>ZARDOUS | potassium fluozirconate                                 | 10-15 🗶  | 16923-95-8                                |
| 75 lb.              | 25 lb.                                | 너       | Xs X.                         |              | 38            | •                  | sodium fluoborate                                       | 30-40 #  | 13755-29-8                                |
|                     |                                       |         | 164                           |              |               | 1                  |   | **       |   |
|                     |                                       |         | 2                             | ای           |               |                    |   | <b>*</b> |   |
| 化铁铁铁铁铁铁铁铁铁铁铁铁铁      | · · · · · · · · · · · · · · · · · · · |         | ******                        |              |               |                    |   |          |   |

| "我就就是是我们的现在分词                   | 6.4 化多子化物 医电视线 医电视电阻 医电视性 医电视性 医电视性 医电视性 医电视性 医电视性 医电视性 医电视性 | · · · · · · · · · · · · · · · · · · · | *********                              | 20000 |    |         |   |   |
|---------------------------------|--|---------------------------------------|--|-------|----|---------|---|---|
| (1)                             |  |                                       |  |       |    |         | 是有现在电影中都有机构的对抗性的现在分词 医皮肤性性性神经性性神经性性的 医动物性神经神经神经神经神经神经神经神经神经神经神经神经神经神经神经神经神经神经神经 | - 化聚氧化聚甲基化氧化氧化氢化氢化氢化氢化氢化氢化氢化氢化氢化氢化氢化氢化氢 |
| CHEMICAL                        | Potassium Hydroxide  | ovide                                 |  |       |    |         | (6)   | (10)                                    |
| 80                              | in Company   | 75 - 40                               |  |       |    |         | HAZARDOUS CHEMICAL INGREDIENTS &  | CAS NUMBERS OF                          |
| PRODUCT                         |  |                                       |  |       |    |         | PERCENTAGE OF EACH  | EACH INGREDIENT                         |
| NAME                            |  |                                       |  |       |    |         | notassium hydroxida   | 1310 3                                  |
| (2)                             | (3)  | г                                     |  | T.    |    |         | מממש ושתו וולמו מאומנ   | C-0C-0TCT Z                             |
| HAXIMUM                         |  | CTOPAGE                               | (5)                                    | 9     |    | (8)     | -   |   |
| OUANTITY                        |  | 1                                     | TYPE DISCOURS OF THE STATE OF THE TYPE | rats. |    | EXIREH- | •   | 7-2                                     |
| ANY TIME                        | QUANTITY   | 3                                     | HAZARDS HAZARDS                        | STATE |    | ELY HA- |   |   |
|                                 | •  |                                       |  |       |    | CARINOS |   |   |
| 200 lb.                         | 200 1b.  | 4                                     | XS XI                                  | ×     | 2A |         |   | •                                       |
|                                 |  |                                       | 2                                      |       |    |         |   |   |
|                                 |  |                                       |  | ار    |    |         |   |   |
| •                               |  |                                       | 1                                      |       |    |         |   |   |
| 790258110112848; <sub>7</sub> , |  |                                       |  | ا     |    | -       |   | **                                      |
|                                 |  |                                       |  | 7-1-1 |    | -       |   |   |

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DATA ENTRY INIT

DATA ENTRY 10

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PAGE

9-100-640070

LAFO A

' FOR HAZARDOUS MATERIALS INVENTORY

ARK

PART B

|   | OR HAZARDOUS MATERIALS INVENTORY   | TERIALS  | INVENTORY   |   |   |   | <u>,                                    </u>   | LAFD # 026645-001-6   | PAGE OF  |
|---|--|--|---|---|---|---|--|---|--|
|   | 2 4 2 1  | FORM FOR   | LOW AND PREACH BUIL   | DING, (   | EXTRA<br>UTDOOR<br>HAZARDO  | COPIES OF<br>AREA, ROO<br>US MATERI                                       | COPIES OF THIS FORM BEFORE COMPLE<br>AREA, ROOM OR UNDERGROUND TANK IN<br>US MATERIALS LISTED ON THIS FORM.  | ETING IT. ( <u>REPORT HAZARDOU</u><br>I WHICH HAZARDOUS MATERIAL  | OPIES OF THIS FORM BEFORE COMPLETING IT. ( <u>REPORT HAZARDOUS WASIE ON PART C)</u><br>REA, ROOM OR UNDERGROUND TANK IN WHICH HAZARDOUS MATERIALS INVENTORY IS BEING AMENDED.<br>IS MATERIALS LISTED ON THIS FORM.   |
| OCATION OF HAZARDO  | HAZARDOUS MATERIALS: (   | COMPLETE ALL   | ALL ITEMS   | ITEMS IN THIS BOX.                                      | S BOX.  |   |  |   |  |
| USINESS NAME ALL  | Allied-Signal E  | lectrod  | Electrodynamics   | Division  | on  |   | 11600  | Sherman Way, M. Hollywood,  | I, CA 91605  |
| JOH NAME OR NUMBER  | r S3   | -  |   |   | UILDING   | GROUND TA   | BUILDING NAME, OUTDOOR AREA, Acid Room OR UNDERGROUND TANK NUMBERS. Acid Room  |   |  |
| 2. COMPL<br>RAW M<br>3. MAKE<br>ON FII  | COMPLETE ITEMS 1-10 FOR EACH HAZARDOUS MATERIAL TO BE RAW MATERIALS, FINISHED CHEMICAL PRODUCTS, CHEMICALS PMAKE SURE YOU INDICATE WHETHER THE INFORMATION SHOULD ON FILE BY MARKING THE APPROPRIATE CODE UNDER ITEM #1. | FOR EACH HED CHEMI TE WHETHE HE APPROP                                     | HAZARDOUS<br>CAL PRODU<br>R THE INF<br>RIATE COD<br>CAN BE FO | MATERI<br>ICTS, CH<br>ORMATIC<br>E UNDER                | AL TO B<br>EMICALS<br>IN SHOUL<br>ITEM #  | E AMENDED<br>MANUFACTI<br>D BE ADDED<br>1.                                | TO BE AMENDED THAT IS STORED OR HANDLALS MANUFACTURED OR REPACKAGED, AND HOULD BE ADDED, CHANGED OR DELETED FREM #1.   | LED AT THE LOCATION SPECIF<br>CHEMICALS DISTRIBUTED.<br>ROM THE CURRENT DISCLOSURE  | AMENDED THAT IS STORED OR HANDLED AT THE LOCATION SPECIFIED ABOVE. INCLUDE MANUFACTURED OR REPACKAGED, AND CHEMICALS DISTRIBUTED.  BE ADDED, CHANGED OR DELETED FROM THE CURRENT DISCLOSURE THAT THE FIRE DEPARTMENT HAS CHED TABLE OF CODES.  |
| DITIONAL INSTRUCT I THE INFORMATION STIMATE MAXIMUM QUA COUNT HANDLED OR SI CODUCT (USE TABLE R GAS). ITEM 7: 1 ZARDOUS (SEE ATTACHEMICAL ABSTRACT SI | IONS: ITEM 1: ( THAT WAS REPORT! ANTITY HANDLED ( TORED AT THE AB( 1): ITEM 5: CHE ENTER THE ONE HA CHED LIST OF EXT   | CHECK APE<br>OR STORED<br>OVE LOCAT<br>ECK PHYSI<br>AZARD KASI<br>FOR FACE | ROPRIATE AT ANY O TON: INCL SC THAZAR AZARDAY H HAZARDAY      | CODE: " IT, "O" INE TIME UDE UNI DS (USE PPLIES SUBSIAN | AT THE TABLE TO THE TO | CATES A P<br>ES A PROD<br>ABOVE LO<br>NOS, GALL<br>20. IIEH<br>PRODUCT (( | RODUCT THAT IS BEING ADDUCT THAT HAS BEEN DELETE CATION; INCLUDE UNITS (PONS, CUBIC FEET). ITEM ONS, CUBIC FEET). ITEM ONSETABLE 3). ITEM B: CHECK THE APPROPRIATIONSE TABLE 3). ITEM B: CHECK INGREDIENTS AND PER | LED TO YOUR EXISTING INVENTION.  LOUNDS, GALLONS, CUBIC FEE  4. LIST ALL THE TYPES OF (  E PHYSICAL STATE, ("S" FOI  CHECK THIS BOX IF PRODUCT (  CENT OF CONCENTRATION. I. | DITIONAL INSTRUCTIONS: ITEM 1: CHECK APPROPRIATE CODE: "A" INDICATES A PRODUCT THAT IS BEING ADDED TO YOUR EXISTING INVENTORY, "C" INDICATES A CHANGE ITHE INFORMATION THAT WAS REPORTED FOR THAT PRODUCT, "D" INDICATES A PRODUCT THAT HAS BEEN DELETED. ENTER THE CHEMICAL OR PRODUCT NAME. ITEM 2: NOTINGE ON STORED AT ANY ONE TIME AT THE ABOVE LOCATION; INCLUDE UNITS (POUNDS, CALLONS, CALLONS, CUBIC FEET). ITEM 3: ESTIMATE AND ALLONS, CUBIC FEET). ITEM 4: LIST ALL THE ABOVE LOCATION; INCLUDE UNITS (POUNDS, CALLONS, CUBIC FEET). ITEM 4: LIST ALL THE TYPES OF CONTAINERS USED TO STORE THE OR GAS). ITEM 7: ENTER THE ONE HAZARD CLASS THAT APPLIES TO THE PRODUCT (USE TABLE 1). ITEM 7: ENTER THE ONE HAZARD CLASS THAT APPLIES TO THE PRODUCT (USE TABLE 3). ITEM 8: CHECK THIS BOX IF PRODUCT OR ANY INGREDIENT IS EXTREMELY HEALD AND INGREDIENT IS EXTREMELY HEALD AND FROM INFORMATION. ITEM 10; ENTER THE CAS |
| (1)   | 化氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢氢   | ****   |   | ****  | REFERENCE   | 100 100 100 100 100 100 100 100 100 100                                   | 170707   | - 化邻苯基甲基苯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基   | V-C. IVVN N-V-V-C. IVVN N-V-V-V-C. IVVN N-V-V-V-V-V-V-V-V-V-V-V-V-V-V-V-V-V-   |
| CHEMICAL OR PRODUCT   | Cadmium Oxide  | de   |   |   |   |   | (9) HAZARDOUS CHEMICAL INGREDIENTS PERCENTAGE OF EACH  | . INGREDIENTS & OF EACH   | (10) CAS NUMBERS OF EACH INGREDIENT  |
| (2)<br>MAXIMUM<br>QUANTITY<br>ANY TIME  | (3)<br>TOTAL<br>YEARLY   | (4)<br>STORAGE<br>TYPES  |   | (6)<br>PHYS.<br>STATE                                   | (7)<br>HAZARD<br>CLASS  | (8)<br>EXTREM-<br>ELY HA-   | cadmıum  | 87.5%   | 1306-19-0  |
| 4 ga].  | (e) 8  | 4  | HAZARDS<br>1  | <u>&gt;</u>   | ر   | ZARDOUS   |  | 34 3  |  |
| ;<br>;  |  | =  | 2m,   | ا ا   | 3   | .   |  | ***   |  |
|   | 自然 医电影 医电影 医电影 医电影 医电影 医电影 医电影 医电影 医电影 医电影   |  | . rv  | ا   |   |   |  | <b>,</b>  |  |
| (E)   |  |  | 机机熔性化燃料机构燃料机构 医三角性 医二角性 医二角性 医二角性 医二角性 医二角性 医二角性 医二角性 医二      |   |   |   | 化拉拉根性拉拉根性拉拉性拉拉性拉拉性拉拉性  | N. 电电子电子 电子电子 医二甲甲基甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲   | ,  |
| CHEMICAL OR PRODUCT   | Econo-CAD-L  |  |   |   |   |   | (9) HAZARDOUS CHEMICAL PERCENTAGE (  | )<br>L INGREDIENTS &<br>OF EACH   | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT  |
| (2) MAXIMUM OIDANTITY   | (3)<br>TOTAL   | (4)<br>STORAGE   | (5)<br>HEALTH &   | (6)<br>PHYS.  | (7)<br>HAZARD   | (8)<br>EXTREM-  | nickel sulfate   | 1 4   | 7786-:1-4  |
| ANY TIME  | QUANTITY   | IYPES  | PHYSICAL<br>HAZARDS   | STATE   | CLASS   | ELY HA-<br>ZARDOUS  |  | <b>१</b> ४१   |  |
| 25 gal.   | 25 gal.  | 4  | -25<br>-1:<br>-1:<br>-1:                                      | : ای  | (   |   |  | **  |  |
|   |  |  | 740   | ل ا   | <del></del>   |   | -  | H H   |  |
| OFFICE USE ONLY:  | INSP. ID   |  | ANVE  | ,   |   | ¥   |  |   |  |

ART B AMENDME( ) OR HAZARDOUS MATERIALS INVENTORY

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- PAGE Z - OF 8

|   |  | u 5  |                                      |          |          | T.N.  |  |   |     | J.<br>EMT   |  |                                       | -                    |
|---|--|--|--------------------------------------|----------|----------|---|--|---|-----|---|--|---------------------------------------|----------------------|
|   | nad, CA 916N5  | CAS NUMBERS OF<br>EACH INGREDIENT  | 7738-94-5                            |          |          | (10)<br>CAS MUMBERS OF<br>EACH INGREDIENT               | 7789-12-0<br>7738-94-5                 |   |     | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT               |  |                                       | PART DATE            |
|   | Hallywood  | ¥  | e 14 14                              | * *      | 4        |   | 80 x                                   | *                                       | ×   | ,   | ¥ 86-86                                | 14 14 14                              | DATA ENTRY INIT      |
|   | BUILBING NAME, OUTDOOR AREA, ACID ROOM OR UNDERGROUND TAME NUMBERS | (1) CHEMICAL CHEMICAL CHEMICAL CONTROL OR CO | Chromic Acid (major)                 |          |          | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH | Sodium Bisulfate<br>Chromic Acid       |   |     | (9) HAZARDOUS CHEHICAL INGREDIENTS & PERCENTAGE OF EACH | Hydrogen Sulfate                       |                                       | DATA FNIRY 10        |
|   | NAME, OU<br>GROUND TAI   |  | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS | ļ        |          |   | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS   | 1                                       |     |   | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS   | ×                                     | DATE                 |
| 15 BOX  | BUTCBING<br>OR UNDER   |  | (7)<br>HAZARD<br>E CLASS             | 3B       |          | ZER   | HAZARD                                 | 38                                      |     |   | (7)<br>HAZARD<br>CLASS                 | 38                                    | -                    |
| IN THI  | LDiv.  |  | (6)<br>PHYS.                         | ٠ ا ا    | <u> </u> | DEOXIDIZER  | (6)<br>L PHYS.                         | SX                                      | 9   | 2   | (6)<br>PHYS.<br>STATE                  | اي اخ اي                              | <u> </u>             |
| LL TTEMS  | Electrodynamics Divisions  | 6<br>6<br>6<br>8<br>8<br>8   | (5) HEALTH & PHYSICAL HAZARDS        | -004,    |          | ALUMINUM DE   | (5)<br>HEALTH<br>PHYSICA<br>HAZARDS    | × 3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 4 % | CONCENTRATED  | (5)<br>HEALTH &<br>PHYSICAL<br>HAZAROS | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | IMSP.                |
| MPLETE A  | lectrpo  | ACID   |                                      | 네        |          | 87 ALUM   | (4)<br>STORAGE<br>TYPES                | d                                       |     | , CONCE   | (4)<br>STORAGE<br>TYPES                | ad                                    |                      |
| XOUS MATERIALS: CO  | Allied-Signal E<br>MER S3  | 1081 CHROMIC   |                                      | 3000 lb. |          | WYANDOTTE #2487   | (3)<br>TOTAL<br>YEARLY<br>QUANTITY     | 300 lb.                                 |     | SULFURIC ACID,  | (3)<br>TOTAL<br>YEARLY<br>QUANTITY     | 2600 lbs.                             | Y: INSP. 10          |
| LOCATION OF HAZARDOUS MATERIALS: COMPLETE ALL ITEMS IN THIS BOX | BUSINESS NAME All  | A CHEMICAL C OR D PRODUCT  | (2) MAXIMUM QUANTITY ANY TIME        | 200 lb.  |          | (1) C — CHEMICAL OR D — PRODUCT NAME                    | (2)<br>MAXIMUM<br>QUANTITY<br>ANY TIME | 300 lb.                                 |     | (1)<br>C — CHENICAL<br>D — PRODUCT                      | (2) HAXIMIH QUANIITY ANY IIME          | 1000 lbs.                             | FOR OFFICE USE OMLY. |

| INVENTORY     |
|---------------|
| MATERIALS     |
| HAZARDOUS     |
| AMENDHEN DR I |
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VSTRUCTIONS:

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11600 Sherman Way,

READ ALL THE INSTRUCTIONS BELOW AND PHOTOCOPY EXTRA COPIES OF THIS FORM BEFORE COMPLETING IT. (REPORT HAZARDOUS WASTE ON PART C) COMPLETE A SEPARATE FORM FOR EACH BUILDING, OUTDOOR AREA, ROOM OR UNDERGROUND TANK IN WHICH HAZARDOUS MATERIALS INVENTORY IS BEING AMENDED. USE BOX BELOW TO SPECIFY THE LOCATION OF THE HAZARDOUS MATERIALS LISTED ON THIS FORM.

CATION OF HAZARDOUS MATERIALS: COMPLETE ALL ITEMS IN THIS BOX

Allied-Signal Electrodynamics Division NOM NAME OR NUMBER JSINESS NAME

. Acid Room ADDRESS BUILDING NAME, OUTDOOR AREA, OR UNDERGROUND TANK NUMBERS.

COMPLETE ITEMS 1-10 FOR EACH HAZARDOUS MATERIAL TO BE AMENDED THAT IS STORED OR HANDLED AT THE LOCATION SPECIFIED ABOVE. INCLUDE RAW MATERIALS, FINISHED CHEMICAL PRODUCTS, CHEMICALS MANUFACTURED OR REPACKAGED, AND CHEMICALS DISTRIBUTED. MAKE SURE YOU INDICATE WHETHER THE INFORMATION SHOULD BE ADDED, CHANGED OR DELETED FROM THE CURRENT DISCLOSURE THAT THE FIRE DEPARTMENT HAS ON FILE BY MARKING THE APPROPRIATE CODE UNDER ITEM #1.

THE CODES IN ITEM 4, 5 and 7 CAN BE FOUND ON THE ATTACHED TABLE OF CODES.

4

DITIONAL INSTRUCTIONS: ITEM 1: CHECK APPROPRIATE CODE: "A" INDICATES A PRODUCT THAT IS BEING ADDED TO YOUR EXISTING INVENTORY, "C" INDICATES A CHANGE ITE INFORMATION THAT WAS REPORTED FOR THAT PRODUCT. "D" INDICATES A PRODUCT THAT HAS BEEN DELETED. ENTER THE CHEMICAL OR PRODUCT NAME. ITEM 3: ESTIMATE ANNUAL STORED AT ANY ONE THE ABOVE LOCATION; INCLUDE UNITS (POUNDS, GALLONS, CUBIC FEET). ITEM 4: LIST ALL THE ABOVE LOCATION; INCLUDE UNITS (POUNDS, CUBIC FEET). ITEM 4: LIST ALL THE TYPES OF CONTAINERS USED TO STORE THE CODUCT (USE TABLE 1). ITEM 5: CHECK PHYSICAL HAZARD CLASS THAT APPLIES TO THE APPROPRIATE PHYSICAL STATE, ("S" FOR SOLID; "L" FOR LIQUID; "G" CARDOUCT OR ANY INGREDIENT IS EXTREMELY ABSTRACT OF EXTREMELY HAZARDOUS SUBSTANCES). ITEM 9: ENTER INGREDIENT OF CONCENTRATION. ITEM 10: ENTER THE CAS HELLOWS (USE TABLE ABSTRACT SERVICE) NUMBERS FOR EACH HAZARDOUS INGREDIENT (USE YOUR HSDS), HEREDIENT OF CONCENTRATION. ITEM 10: ENTER THE CAS

|             |  | *****   |                               | RHRRRR | H R R R R R R R | משני נמת | C. IVUK TJUUJ.<br>Terretaran propretaran pr | - 电影影響器 电电影 | 医多类球球 医多种性 医多种性 医多种性 医多种性 医多种性 医多种性 医多种性 医多种性 |
|-------------|--|---------|-------------------------------|--------|-----------------|----------|---|-------------|---|
| CHEMICAL OR | Wyandotte Altrex #1097                 | rex #10 | 197                           |        |                 |          | (9) HAZARDOUS CHEMICAL INGREDIENTS &  |             | (10)<br>CAS NUMBERS OF                        |
| NAME        |  |         |                               |        |                 |          | PEKLENIAGE OF EACH  |             |   |
| (2)         | (3)                                    | (4)     | (5)                           | (9)    | (2)             | (8)      | sodium metasilicate   | 30 %        | 6834-92-0                                     |
| OUANTITY    | TOTAL<br>YFARIY                        | STORAGE | STORAGE HEALTH & PHYS. HAZARD | PHYS.  | HAZARD          | X        |   | H           |   |
| ANY TIME    | QUANTITY                               | 3       | HAZAROS                       | STATE  | CLASS           | ZAPONIS  |   | 1           |   |
| 375 lb.     | 375 lb.                                | 8       | ×                             | ×      | 2A              |          |   |             |   |
|             |  |         | ],                            | ,      |                 | •        |   | 7           |   |
|             |  |         | ~\ <b>~</b>                   |        |                 | 1        |   | 74          |   |
|             |  |         | 2                             | اق     |                 |          |   | *           |   |
|             | 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. |         |                               |        |                 |          |   |             |   |

|                  |   |           |                            |         |        | _                                     |  |                 |
|------------------|---|-----------|----------------------------|---------|--------|---------------------------------------|--|-----------------|
| · 我也就在我们就就就是我们的人 | 1990年中华中华中华中华中华中华中华中华中华中华中华中华中华中华中华中华中华中华中华 |           |                            |         |        |                                       |  |                 |
|                  |   |           |                            |         | ****   | · · · · · · · · · · · · · · · · · · · | 医多角性神经神经神经神经神经神经神经神经神经神经神经神经神经神经神经神经神经神经神经 | *****           |
| CHEMICAL         | Fluoboric Acid                              | ס         |                            |         |        |                                       | ) (6)                                      | 16              |
| ő                |   |           |                            |         |        |                                       | INGREDIENTS &                              | BERG OF         |
| PRODUCT          |   |           |                            |         |        |                                       |  | EACH INGREDIENT |
| KAME             |   |           |                            |         |        |                                       |  |                 |
| (2)              | (3)   | 185       | ı                          |         |        |                                       | 11000011C_acid                             |                 |
| MAXIMUM          |   | CTOBACE.  | (2)                        | 6       | 3      | <del>(</del> 8)                       |  |                 |
| OUANTITY         |   | 3000      | TYPE HEALIN & PHYS. HAZARD | PHYS. I | 4AZARD | EXTREM-                               | 74   |                 |
| ANY TIME         | CHANTITY                                    | 311       | PHYSICAL                   | STATE   | :LASS  | ELY HA-                               |  |                 |
|                  |   |           | HAZAKUS                    |         |        | ZARDOUS                               |  |                 |
| 110 11           | 110 16                                      | c         | >                          |         |        |                                       |  |                 |
| .01 011          | TTO ID:                                     | 4         | 4                          | ر       |        |                                       |  |                 |
|                  |   |           | 7                          |         |        |                                       |  |                 |
|                  |   |           |                            | LX.     | 2 A    |                                       | 1  |                 |
|                  |   |           | 4                          | ]       |        |                                       |  |                 |
|                  |   |           | 5                          | 9       |        |                                       | •  |                 |
|                  |   | Tanana op | Tanasana.                  |         |        |                                       |  |                 |

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INSP. 10

OFFICE HEE ONLY.

| PART B AMENDMENT TO   | FOR HAZARDOUS MATERIALS                  | ATERIALS                  | INVENTORY                                |                           |                        | • •                                   | (  | ¥ 677                                   | U25645-001  | )1-1,           | PAGI         | PAGE OF                                   |
|---|--|---------------------------|--|---------------------------|------------------------|---------------------------------------|--|---|---|-----------------|--------------|---|
| LUCATION OF HAZARDOU  | HAZARDOUS MATERIALS: (<br>Allied-Signal  | <b>complete</b><br>Electr | MPLETE ALL ITEMS IN<br>Electrodynamics [ | IN THIS BOX<br>S Division | <b>BOX</b><br>Sion     |                                       | 1  | 11600 Sh                                | Sherman Way,  | N. Hollywood,   |              | 91605                                     |
| ROOM NAME OR NUMBER   | 57                                       | -                         |  |                           | UILDING<br>R UNDER     | NAME, OU                              | ADDRESS<br>BUILDING NAME, OUTDOOR AREA,<br>OR UNDERGROUND TANK NUMBERS | Cutting                                 | Oil and   | Coolant Stor    | Storage Area |   |
|   | - 新花田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田 |                           | ***                                      |                           |                        | *********                             |  |   |   | ***********     | ***********  |   |
| A CHEMICAL CONTROPORT DOME DOME DOME DOME DOME DOME DOME DOME                       | Breeze                                   | #2271-SSDR                |  | (cleaning                 | (punodwo)              | (pu                                   | HAZARI   | CHEMICA<br>PERCENTAGE                   | (9) HAZARDOUS CHEMICAL INGREDIENTS PERCENTAGE OF EACH |                 |              | (10)<br>CAS MUMBERS OF<br>EACH INGREDIENT |
| (2)<br>HAXIMUH<br>QUANTITY<br>ANY TIME  | (3)<br>TOTAL<br>YEARLY<br>QUANTITY       | (4)<br>STORAGE<br>TYPES   | (5)<br>HEALTH &<br>PHYSICAL<br>HAZARDS   | (6)<br>PHYS.<br>STATE     | (7)<br>HAZARD<br>CLASS | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS. | no naza  | nazardous ing                           | Ingreatents   | <b>" " "</b>    |              |   |
| 275 gal.  | 2200 gal.                                | <u>م</u>                  | ≅,                                       | 2                         |                        | ,                                     |  |   |   |                 |              |   |
|   |  |                           | ·  | ال الد                    | 10                     | 1                                     |  |   |   |                 |              |   |
| <b>医电影 电电阻 医电阻 医电阻 医电阻 医电阻 医电阻 医电阻 医电阻 医电阻 医电阻</b>                                  |  | *********                 | · · · · · · · · · · · · · · · · · · ·    |                           |                        |                                       |  |   | ***************************************               | TABBERREE       | ***********  | ***************************************   |
| A CHEMICAL C OR   | Cerfa-Kleen                              | en 5382                   |  |                           |                        |                                       | HAZAR  | (9)<br>HAZARDOUS CHEMICAL<br>PERCENTAGE | 9)<br>AL INGREDIENTS<br>F OF FACH                     |                 |              | (10)<br>CAS NUMBERS OF<br>FACH INCREDIENT |
| 1   |  |                           |  |                           |                        |                                       | 20   | hazardous ingredients                   | edients   |                 |              |   |
| (2)<br>MAXIMUM<br>QUANTITY<br>ANY TIME  | (3)<br>TOTAL<br>YEARLY<br>OUANTITY       | (4)<br>STORAGE<br>TYPES   | (5)<br>HEALTH &<br>PHYSICAL              | (6)<br>PHYS.<br>STATE     | (7)<br>HAZARD<br>CLASS | (8)<br>EXTREM-<br>ELY HA-             |  |   |   | •               |              |   |
| 330 gal.  | 330 gal.                                 | В                         | × ×                                      | <u>ر</u>                  |                        | CAKUUUS                               |  |   |   |                 |              |   |
|   |  |                           | 20 4 R                                   | ال لد                     | 7                      |                                       |  |   |   | * *             |              |   |
| <b>医电影性医电影性电影性医电影性医电影性医电影性医电影性医电影性医电影性医影响的影响的影响的影响的影响的影响的影响的影响的影响的影响的影响的影响的影响的影</b> |  |                           | · · · · · · · · · · · · · · · · · · ·    |                           |                        |                                       |  | *********                               |   | Sankahahahah    | Sesentates.  |   |
| CHEMICAL CONTROP D PRODUCT NAME   |  |                           |  | •                         |                        |                                       | HAZARI   | (9) HAZARDOUS CHEMICAL PERCENTAGE       | (9)<br>CAL INGREDIENTS<br>GE OF EACH                  | <b>d</b>        |              | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT |
| (2)<br>HAXIMUH<br>QUANTITY<br>ANY TIME  | (3)<br>TOTAL<br>YEARLY<br>QUANTITY       | (4)<br>STORAGE<br>TYPES   | (5)<br>HEALTH &<br>PHYSICAL<br>HAZARDS   | (6)<br>PHYS.<br>STATE     | (7)<br>HAZARD<br>CLASS | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS  |  |   |   |                 |              |   |
|   |  |                           | -20 T L L                                | ا ا                       |                        |                                       | -  |   |   |                 |              |   |
| OR OFFICE USE ONLY:   | INSP. 10                                 |                           | INSP.                                    | IMI.                      |                        | DATE                                  |  | DATA ENTRY ID                           | RY ID   | DATA ENTRY INIT | IRY INIT     | DATE                                      |

1. COMPLETE A SEPARATE FORM FOR EACH BUILDING, OUTDOOR AREA, ROOM OR UNDERGROUND TANK IN WHICH MAZARDOUS MATERIALS INVENTORY IS BEING AMENDED. USE BOX BELOW TO SPECIFY THE LOCATION OF THE HAZARDOUS MATERIALS LISTED ON THE FORM. ร INSTRUCTIONS: READ ALL THE INSTRUCTIONS BELOW AND PHOTOCOPY EXTRA COPIES OF THIS FORM BEFORE COMPLETING IT. (REPORT HAZARDOUS WASIE ON PART C) 400 - 21 0040 \* 2141

AMAROLL

LOCATION OF HAZARDOUS MATERIALS: COMPLETE ALL ITEMS IN THIS BOX

11600 Sherman Way North Hollywood, CA 91605 Acid Room ADDRESS BUILDING NAME, OUTDOOR AREA, OR UNDERGROUND TANK NUMBERS. Allied-Signal Electrodynamics Division **S3** ROOM NAME OR NUMBER BUSINESS NAME

COMPLETE ITEMS 1-10 FOR EACH HAZARDOUS MATERIAL TO BE AMENDED THAT IS STORED OR HANDLED AT THE LOCATION SPECIFIED ABOVE. INCLUDE RAW MATERIALS, FINISHED CHEMICAL PRODUCTS, CHEMICALS MANDERIALS, FINISHED CHEMICAL PRODUCTS, CHEMICALS DAND CHEMICALS DISTRIBUTED.
MAKE SURE YOU INDICATE WHETHER THE INFORMATION SHOULD BE ADDED, CHANGED OR DELETED FROM THE CURRENT DISCLOSURE THAT THE FIRE DEPARTMENT HAS ON FILE BY MARKING THE APPROPRIATE CODE UNDER ITEM #1.

THE CODES IN ITEM 4, 5 and 7 CAN BE FOUND ON THE ATTACHED TABLE OF CODES.

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ADDITIONAL INSTRUCTIONS: IIEH I: CHECK APPROPRIATE CODE: "A" INDICATES A PRODUCT THAT IS BEING ADDED TO YOUR EXISTING INVENTORY, "C" INDICATES A CHANGE IN THE INFORMATION THAT WAS REPORTED FOR THAT PRODUCT, "P" INDICATES A PRODUCT THAT HAS BEEN DELETED. ENTER THE CHEMICAL OR PRODUCT NAME. IIEH 2: ESTIMATE AMMAL ANOLED OR STORED AT ANY ONE THE ABOVE LOCATION; INCLUDE UNITS (POUNDS, CUBIC FEET). ITEM 3: ESTIMATE AMMAL PRODUCT (USE TABLE 1). ILEM 5: CHECK PHYSICAL HAZARDS (USE TABLE 2). ILEM 5: CHECK PHYSICAL HAZARDS (USE TABLE 2). ILEM 6: CHECK THE SPPT OF STORE STORE THE PRODUCT OF ANY INGREDIENT IS EXTREMELY HAZARDS CLASS THAT APPLIES TO THE PRODUCT (USE TABLE 3). INCLUDE ON SUBSTANCES). ILEM 7: ENTER THE ONE HAZARD CLASS THAT APPLIES TO THE PRODUCT (USE TABLE 3). INCLUDE ON STORE THE ONE HAZARDS OF CONTENENT IS EXTREMELY CHECK THIS BOX IF PRODUCT OR ANY INGREDIENT IS EXTREMELY CHEMBERS FOR EACH HAZARDOUS INGREDIENT (USE TABLE AND PERCENT OF CONCENTRATION. ILEM 10; ENTER THE CAS APPROACES." ILEM 10; ENTER THE CAS APPROACES." ILEM 10; ENTER THE CAS APPROACES." ILEM 10; ENTER THE CAS APPLIES TO THE PRODUCT (USE TABLE ABSTRACT SERVICE). IN PRODUCT OR ANY INGREDIENT (USE TABLE ABSTRACT SERVICE). IN PRODUCT OR ANY INGREDIENT (USE TABLE ABSTRACT SERVICE). IN PRODUCT OR ANY INGREDIENT (USE TABLE ABSTRACT SERVICE). IN PRODUCT OR ANY INGREDIENT (USE TABLE ABSTRACT SERVICE). IN ILEM 10; ENTER THE CAS APPLIES TO THE PRODUCT OR ANY INGREDIENT (USE TABLE ABSTRACT SERVICE). IN ILEM 10; ENTER THE CAS APPLIES TO THE PRODUCT OR ANY INGREDIENT AND THE PRODUCT OR ANY INGREDIENT AND THE PRODUCT OR ANY INGREDIENT AND THE PRODUCT OR ANY INGREDIENT AND THE PRODUCT OR ANY INGREDIENT AND THE PRODUCT OR ANY INGREDIENT AND THE PRODUCT OR ANY INGREDIENT AND THE PRODUCT OR ANY INGREDIENT AND THE PRODUCT OR ANY INGREDIENT AND THE PRODUCT OR ANY INGREDIENT AND THE PRODUCT OR ANY INGREDIENT AND THE PRODUCT OR ANY INGREDIENT AND THE PRODUCT OR ANY INGREDIENT AND THE PRODUCT OR ANY INGREDIENT AND THE PRODUCT OR ANY INGREDIENT AND THE PRODUCT OR

| (1)                                      |                                    |                         |  |                       |                        |                                      | International Last I (VIII TIAL).                       |   |
|--|------------------------------------|-------------------------|--|-----------------------|------------------------|--------------------------------------|---|---|
| C CHENICAL C OR D PRODUCT S NAME         | SODIUM HYDROXIDE (50%"Solution)    | DE (50%                 | "Soluti  | on)                   |                        | ·                                    | (9) HAZARDOUS CHENICAL INGREDIENTS & PERCENTAGE OF EACH | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT |
| (2) MAXIMUM QUANTITY ANY TIME            | (3)<br>TOTAL<br>YEARLY<br>QUANTITY | (4)<br>STORAGE<br>TYPES | STORAGE HEALTH & PHYS. HAZARD TYPES PHYSICAL STATE CLASS | (6)<br>PHYS.<br>STATE | (7)<br>HAZARD<br>CLASS | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS | Sodium Hydroxide  | 50 K 1310-73-2                            |
| 2800 1b.                                 | 5600 lb.                           | 떠                       | جراً ا<br>ا  | لا اي                 | 2A                     | •                                    |   | ) H                                       |
|  |                                    |                         | <b>5</b> ∀   | و                     |                        |                                      |   |   |
|  |                                    |                         |  |                       |                        | *****                                |   |   |
| C OR OR OR OR OR OR OR OR OR OR OR OR OR | SODIUM HYDROXIDE (TECH GRADE-BEAD) | (TDE (T                 | ECH GRA  | DE-8E/                | AD)                    |                                      | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT |
| (2)<br>HAXIMIN<br>QUANTITY<br>ANY TINE   | (3)<br>TOTAL<br>YEARLY<br>QUANTITY | (4)<br>STORAGE<br>TYPES | STORAGE HEALTH & PHYS. HAZAR TYPES PHYSICAL STATE CLASS  | (6)<br>PHYS.<br>STATE | (7)<br>HAZARD<br>CLASS | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS | sodium hydroxide 5                                      | 50 x 1310-73-2                            |
| 300 lbs.                                 | 300 lbs.                           | Щ                       | ×  | S X                   |                        |                                      |   | 4 34                                      |
|  |                                    |                         |  | ی ار                  | ¥7]                    | 1                                    |   | P4 1                                      |

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FOR OFFICE USE ONLY.

| 2  |                                    | COMPLETE ALL ITEMS IN THIS BOX | IL ITEMS                               | IN THIS BO                            | X06                    |                                       |  | ] =   | i .  | , , , , , , , , , , , , , , , , , , ,     |
|--|------------------------------------|--------------------------------|--|---------------------------------------|------------------------|---------------------------------------|--|---|--|---|
| BUSINESS NAME                                | ı                                  | S7                             | y main 103                             | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 9810                   | MAME.                                 | ADDRESS<br>OUTDOOR AREA,<br>TANK NEMBERS | Sherman way, N.<br>ng Oil and Coolan                    | Storage A                                    | CA 91505<br>Trea                          |
|  | **********                         |                                |  |                                       | ***                    |                                       |  |   |  |   |
| (1) CHENICAL CHENICAL 0 0 0 PRODUCT 01L NAME | , MOBIL                            | VELOCITE #:                    | #10                                    |                                       |                        |                                       | HAZARD                                   | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH |  | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT |
| (2)<br>HAXIMIH<br>QUANTITY<br>ANY TIME       | (3)<br>TOTAL<br>YEARLY<br>QUANTITY | STORAGE<br>TYPES               | (5)<br>HEALTH &<br>PHYSICAL<br>HAZARDS | (6)<br>PHYS.<br>STATE                 | (7)<br>HAZARD<br>CLASS | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS: | No hazardous<br>Refined mine             | dous constituents<br>mineral oil                        | <b>3</b> 95 <b>4 8 8 9 9 9 9 9 9 9 9 9 9</b> |   |
| 220 gal.                                     | 220 gal.                           | В                              | ₩<br>₩                                 | ×   ×                                 | 18                     |                                       | Additives                                | S   | 5 <u>x</u>                                   |   |
|  |                                    |                                | S                                      | 9                                     |                        |                                       |  |   | *  |   |
| A CHEMICAL                                   |                                    |                                |  |                                       |                        |                                       | HAZARDC                                  | HAZARDOUS CHEMICAL INGREDIENTS & CAS NUMBERS OF         |  | (10)<br>CAS NUMBERS OF                    |
| or<br>Nocuct 0il<br>WYK                      | •                                  |                                |  |                                       |                        | •                                     | No hazardous                             | CONST.  |  | EACH INGREDIENT                           |
| (2)<br>MAXIMIM<br>QUAMITIY<br>ANY TIME       | (3)<br>TOTAL<br>YEARLY<br>QUANTITY | (4)<br>STORAGE<br>TYPES        | (S)<br>HEALTH &<br>PHYSICAL<br>HAZAROS | (6)<br>PHYS.<br>STATE                 | (7)<br>HAZARD<br>CLASS | (B)<br>EXTREM-<br>ELY HA-<br>ZARDOUS  | Refined mineral additives                | iner  | 95 %   |   |
| 110 gal.                                     | 110 gal.                           | В                              | ×                                      | S.                                    | -                      |                                       |  |   | **   |   |
|  |                                    |                                | E 4 2                                  | ×                                     | =<br>=                 | l                                     |  |   |  |   |
| Ê  |                                    |                                |  |                                       |                        |                                       | HAZARDO                                  | HAZARDOUS CHEMICAL INGREDIENTS & CAS MANBERS OF         |  | (10)<br>CAS NUMBERS OF                    |
| D PRODUCT                                    |                                    |                                |  |                                       |                        |                                       |  | PERCENTAGE OF EACH                                      | •  | EACH INGREDIENT                           |
| (2)<br>MXIMIN<br>QUANTITY<br>ARY TINE        | (3)<br>TOTAL<br>YEARLY<br>QUANTITY | STORAGE<br>TYPES               | (5)<br>HEALTH &<br>PHYSICAL<br>HAZAROS | (6)<br>PHYS.<br>STATE                 | (7)<br>HAZARD<br>CLASS | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS  |  |   | <br>   |   |
|  |                                    | 1 1                            | -25                                    | ، اد ای                               | 1                      |                                       |  |   |  |   |
| FOR OFFICE USE ONLY:                         | INSP. 10                           |                                | IMSP. 1MT.                             | , E                                   |                        | DATE                                  |  | DATA ENTRY 10 D   | DATA ENTRY INIT                              | DATE                                      |

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AMENIUM FUR INCARBOUS MILKIALS INVENIUNT

| LOCATION OF HAZARDONIS MATERIALS: COMPLETE ALL            | DOKIS MATERIALS.                   | COMPLETE                | TTEME                                  | THI WI                    | <b>B</b> OX            |                                       |  |   |
|---|------------------------------------|-------------------------|--|---------------------------|------------------------|---------------------------------------|--|---|
|   |                                    |                         |  |                           | § .                    |                                       |  |   |
| BUSINESS NAME A!  | Aliled-Signal                      | Electro                 | Electrodynamics Division               | Divi                      | ion                    | MAME                                  | ADDRESS 11500 Sherman May, N. Hollywood, CA 91605  | 11ywood, CA 91605                         |
| ROOM NAME OR NUMBER                                       | ER S7                              |                         |  | 66                        | N UNDER                | ROUND TA                              | building mane, Unicook Akea.<br>OR UNDERGROUND TANK NUMBERS <u>-Cutting-Oil and Goolant-Storage-Area</u> | Storage Area                              |
|   | *************                      | *******                 | *******                                |                           | ****                   |                                       |  |   |
| CHEMICAL CHEMICAL COR COR COR COR COR COR COR COR COR COR | Aircraft Hydı                      | Hydraulic F             | Fluid, "                               | ; iI-1I;                  | 5606E                  |                                       | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH  | (10)<br>CAS MUMBERS OF<br>EACH INGREDIENT |
|   | İ                                  |                         |  |                           |                        |                                       | Refined solvent petroleum  | **  |
| (2)<br>MAXIMUM<br>QUANTITY<br>ANY TIME                    | (3)<br>TOTAL<br>YEARLY<br>QUANTITY | (4)<br>STORAGE<br>TYPES | (5)<br>HEALTH &<br>PHYSICAL<br>HAZARDS | (6)<br>PHYS. I            | (7)<br>HAZARD<br>CLASS | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS. | base stock   | <b>x</b> 64742-46-7                       |
|   |                                    |                         |  | <u> </u>                  |                        |                                       |  | **  |
|   |                                    | -                       | 1.60.4.70                              | ل ار                      |                        | 1                                     |  | 14 14 14 14 14 14 14 14 14 14 14 14 14 1  |
|   |                                    |                         | **********                             |                           |                        | *****                                 |  |   |
| (1)<br>C — CHEMICAL<br>OR — OR                            | Petrofluid 38                      | 3806 (нуд               | raulic                                 | luid)                     | MIL-!!-                | -(1083E                               | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH  | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT |
| NAME (2)  | (3)                                |                         | 100                                    |                           |                        |                                       | Refined solvent petroleum  | <b>x</b> 64741-97-5                       |
| HAXIMUM<br>QUANTITY                                       | TOTAL<br>YEARLY                    | STORAGE                 | HEALTH &                               | PHYS.                     | HAZARD                 | EXTREM-                               | base stock   | £ 64742-96-7                              |
|   | _                                  |                         | HAZARDS                                |                           | <br>}                  | ZARDOUS                               |  | <b>z</b> 64742-53-6                       |
| 275 gal.  | 800 gal.                           | 4                       | ار<br>ارلا                             | S :                       |                        |                                       |  | ***                                       |
|   |                                    |                         | - 4 N                                  | <br>∀                     | <br>역                  | 1                                     |  | P6 P6                                     |
|   | **********                         | *******                 |  |                           | *******                |                                       |  |   |
| CHENTCAL CHENTCAL COR COR COR COR COR COR COR COR COR COR | Pennwalt SGC                       | 3821A (                 | (Coolant                               | Fluid)                    |                        |                                       | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH  | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT |
|   |                                    |                         |  | :                         |                        |                                       | V  | 10 <b>€</b> 64741-96-4                    |
|   | (3)<br>101al<br>YEARLY             | (4)<br>STORAGE<br>TYPES | (5)<br>HEALTH &<br>PHYSICAL            | (6)<br>PHYS. H<br>STATE C | (7)<br>HAZARD          | (8)<br>EXTREM-                        | Diethanolamine <   | 5 \$ 11112-2                              |
|   |                                    |                         | HAZARDS                                | ,<br>,                    |                        | ZARDOUS                               | Hexylene Glycol  | 5 \$ 107-41-5                             |
| 440 gal.  | 1/60 gal.                          |                         | <u>~</u><br>≯  :                       | S                         | (                      |                                       |  | **  |
|   |                                    |                         | ~ <b>4.</b> ℃                          | لي الج                    | ——<br>鬥                |                                       |  | P4 P4                                     |
| FOR OFFICE USE ONLY:                                      | C. INSP. 10                        |                         | INSP.                                  | IMT.                      |                        | DATE                                  | DATA ENTRY 10 DAY  | DATA ENTRY INIT DATE                      |

026645-001-6

INSTRUCTIONS: READ ALL THE INSTRUCTIONS BELOW AND PHOTOCOPY EXTRA COPIES OF THIS FORM BEFORE COMPLETING IT. (REPORT HAZARDOUS WASTE ON PART C)
1. COMPLETE A SEPARATE FORM FOR EACH BUILDING, OUTDOOR AREA, ROOM OR UNDERGROUND TANK IN WHICH HAZARDOUS MATERIALS INVENTORY IS BEING AMENDED.
USE BOX BELOW TO SPECIFY THE LOCATION OF THE HAZARDOUS MATERIALS LISTED ON THIS FORM.

LOCATION OF HAZARDOUS MATERIALS: COMPLETE ALL ITEMS IN THIS BOX.

Allied-Signal Electrodynamics Division BUSINESS NAME

ROOM NAME OR NUMBER

BUILDING NAME, OUTDOOR AREA, OR UNDERGROUND TANK NUMBERS.

11600 Sherman Way, N. Hollywood, CA

91605

Cutting Oil and Coolant Storage Area

COMPLETE ITEMS 1-10 FOR EACH HAZARDOUS MATERIAL TO BE AMENDED THAT IS STORED OR HANDLED AT THE LOCATION SPECIFIED ABOVE. INCLUDE RAW MATERIALS, FINISHED CHEMICAL PRODUCTS, CHEMICALS MANUFACTURED OR REPACKAGED, AND CHEMICALS DISTRIBUTED.

MAKE SURE YOU INDICATE WHETHER THE INFORMATION SHOULD BE ADDED, CHANGED OR DELETED FROM THE CURRENT DISCLOSURE THAT THE FIRE DEPARTMENT HAS ON FILE BY MARKING THE APPROPRIATE CODE UNDER ITEM #1.

THE CODES IN ITEM 4, 5 and 7 CAN BE FOUND ON THE ATTACHED TABLE OF CODES.

ADDITIONAL INSTRUCTIONS: ITEM 1: CHECK APPROPRIATE CODE: "A" INDICATES A PRODUCT THAT IS BEING ADDED TO YOUR EXISTING INVENTORY, "C" INDICATES A CHANGE IN THE INFORMATION THAT WAS REPORTED FOR THAT PRODUCT. "D" INDICATES A PRODUCT THAT HAS BEEN DELETED. ENTER THE CHEMICAL OR PRODUCT NAME. ITEM 2: ESTIMATE ANNUAL ESTIMATE MAXIMUM QUANTITY HANDLED OR STORED AT THE ABOVE LOCATION: THE ABOVE LOCATION: INCLUDE UNITS (POUNDS, GALLONS, CUBIC FEET). ITEM 4: LIST ALL THE TYPES OF CONTAINERS USED TO STORE THE PRODUCT (USE TABLE 1). ITEM 5: CHECK PHYSICAL HAZARDS (USE TABLE 2). ITEM 6: CHECK THE APPROPRIATE PHYSICAL STATE, ("S" FOR SOLID; "L" FOR LIQUID; "G" FOR GAS). ITEM 7: ENTER THE ONE HAZARD CLASS THAT APPLIES TO THE PRODUCT (USE TABLE 3). ITEM 8: CHECK THIS BOX IF PRODUCT OR ANY INGREDIENT IS EXTREMELY WAZARDOUS SUBSTANCES). ITEM 8: CHECK TO CONCENTRATION. ITEM 10: ENTER THE CAS CHEMICAL ABSTRACT SERVICE) MANGERS FOR EACH HAZARDOUS INGREDIENT (USE YOUR MSDS).

|   |          |                     | 1              |               |         |   |          | -   |
|---|----------|---------------------|----------------|---------------|---------|---|----------|---|
| CHEMICAL OR OR OR OF THE CALL OR OR OF THE CALL OR OR OF THE CALL | Trimsol  |                     |                |               |         | (9) HAZARDOUS CHEHICAL INGREDIENTS & PERCENTAGE OF EACH |          | (10)<br>CAS MUMBERS OF<br>FACH INCREDIENT |
| ŀ   |          |                     |                |               |         | Nonhazardous mixture                                    | ,        |   |
| HAXIMUM TOTAL OLIANTITY YEAR!Y  |          | - E                 | (6)<br>PHYS. H | (7)<br>HAZARD | EXTREM- | Petroleum Oil, Non-Ionic                                | e 24     |   |
| •••   | <u> </u> | HAZARDS STATE CLASS | STATE          | SSY           | ELY HA- | Surfactants, Wax, Petroleum                             | <b>*</b> |   |
| 165 gal. 800 gal  | ]<br>    | A/N/A               | 2              |               | •       | Sulfonate, Odorants, Defoamer                           | ***      |   |
|   | 1        | 36                  | ×J             | 18            | 1       | Dye & Water.  | *        |   |
|   |          |                     | او             |               |         |   | 74       |   |
|   |          | **********          |                |               | *****   |   |          |   |

|  |         |               |                               |       |          |                | 4                           |                                       |
|--|---------|---------------|-------------------------------|-------|----------|----------------|-----------------------------|---------------------------------------|
| 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 |         |               |                               |       |          |                |                             |                                       |
| (0)                                      |         |               |                               |       |          |                |                             | · · · · · · · · · · · · · · · · · · · |
| CHEMICAL                                 | Blaso   | Blasocut 2000 | Q                             |       |          |                | (6)                         | (10)                                  |
| PRODUCT                                  |         |               | ı                             |       |          |                | PERCENTAGE OF EACH          | EACH INGREDIENT                       |
| NAME                                     |         | -             |                               |       |          |                | Non-hazardous mixture       |                                       |
| (2)                                      |         |               |                               |       | 1        | T              | 1                           |                                       |
| MAXIMUM                                  | TOTAL   | STORAGE       | STORAGE HEALTH & PHYS. HAZARD | PHYS. | (/)      | (8)<br>EXTREM- | mineral oil; paraffins,     |                                       |
| ANY TIME                                 |         | S             | HAZAROS                       | SIAIE | CLASS    | ELY HA-        | corrosion & fungi           |                                       |
| 55 gal.                                  | 55 gal. | <u>س</u>      |                               | 2     | •        |                | inhibitors, odorant and dye |                                       |
| •.                                       |         |               | _                             | ۲     | <b>E</b> |                |                             |                                       |
|  |         |               | 2                             | ای    |          |                | <b>*</b>                    |                                       |

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CAS NUMBERS OF EACH INGREDIENT CAS NUMBERS OF EACH INGREDIENT CAS NUMBERS OF EACH INGREDIENT 91605 Cutting Oil and Coolant Storage Area S Hollywood, 5 % 95 % 95.4 C 5x 95 🗶 5 11600 Sherman May, N. MAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH MAZARDOUS CHENICAL INGREDIENTS PERCENTAGE OF EACH HAZARDOUS CHEMICAL INGREDIENTS No Hazardous Constituents No hazardous constituents No hazardous constituents PERCENTAGE OF EACH Refined Mineral Oils Refined mineral oils oils Refined mineral additives additives Additive BUTLDING MAME, OUTDOOR AREA, OR UNDERGROUND TANK NUMBERS ADDRESS EXTREM-ELY HA-ZARDOUS ELY HA-ELY HA-EXTREM-EXTREM HAZARO HAZARD PHYS. HAZARD STATE CLASS 12 18 Electrodynamics Division COMPLETE ALL ITEMS IN THIS BOX 18 HEALTH & PHYS. H
PHYSICAL STATE C
HAZARDS STORAGE HEALTH & PHYS.
TYPES PHYSICAL STATE ×  $\times$ ای ی ٰی HEALTH & P PHYSICAL S HAZAROS 7 | N 4 5 ×||  $\times$ 26 Oil, DTE Heavy Medium Oil, DTE Extra Heavy Hydraulic Oil, DTE STORAGE STORAGE 4 ₹ വ 8 27 Allied-Signal 110 gal. LOCATION OF HAZARDOUS MATERIALS: 110 gal. 275 gal. TOTAL YEARLY QUANTITY QUANTITY QUANTITY (3) TOTAL YEARLY (3) 101al Yearly ROOM NAME OR NUMBER CHEMICAL 110 gal. CHEMICAL CHEMICAL OR PRODUCT PRODUCT NAME PRODUCT. BUSINESS NAME AAE MAXIMUM QUANTITY ANY TIME 165 gal 110 gal MAXIMUM QUANTITY ANY TIME MAXIMUM QUANTITY ¥ AIT TIRE

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FOR OFFICE USE ONLY:

| PAKI B ATEMETANI  | FUR INCARBAUS MIENTALS INVENTINE   | NEKIALS  | INVENIUNT  |   |  |   | · (-   | 710070  | 0-100-  | rAue Of  |
|---|--|--|--|---|--|---|--|---|---|--|
| INSTRUCTIONS: REAL  | READ ALL THE INSTRUCTIONS BELOW AND PHOTOCOF<br>COMPLETE A SEPARATE FORM FOR EACH BUILDING,<br>USE BOX BELOW TO SPECIFY THE LOCATION OF THE  | TIONS BE<br>FORM FOR                                   | INSTRUCTIONS BELOW AND PHOTOCOPY EXTRA<br>PARATE FORM FOR EACH BUILDING, OUTDOOR<br>1 TO SPECIFY THE LOCATION OF THE HAZARDO                 | HOTOCOP<br>LDING,<br>OF THE                         | Y EXTRA<br>OUTDOOR<br>E HAZARDO                        | COPIES OF AREA, ROC<br>NUS MATERI                           | THIS FORM BEH<br>M OR UNDERGROU<br>ALS LISTED ON   | COPIES OF THIS FORM BEFORE COMPLETING IT. (REPORT HAZARDOUS WASTE ON PAREA, ROOM OR UNDERGROUND TANK IN WHICH HAZARDOUS MATERIALS INVENTORY US MATERIALS LISTED ON THIS FORM.   | L HAZARDOUS WASTE O<br>S MATERIALS INVENTO  | M PART C)<br>RY IS BEING AMENDED.  |
| LOCATION OF HAZARDOUS MATERIALS:  |  | COMPLETE   | COMPLETE ALL ITEMS IN THIS BOX.  | TIN TH  | IS BOX.  |   |  |   |   |  |
| BUSINESS NAME AT  | Allied-Signal E  | lectroc  | Electrodynamics Division   | Divi  | ion  |   | 1  | 11600 Sherman Way, N.   | Hollywood, CA   | 91605  |
| ROOM NAME OR NUMBER   | ER   | \s\  |  |   | BUILDING<br>OR UNDER                                   | GROUND TA   | GROUND TANK NUMBERS.   | Cutting Oil and Coolant   | nt Storage Area   | 3  |
| 2. COM<br>RAN<br>3. MAKE<br>ON I  | COMPLETE ITEMS 1-10 FOR EACH HAZARDOUS MATERIAL TO BE RAW MATERIALS, FINISHED CHEMICAL PRODUCTS, CHEMICALS MAKE SURE YOU INDICATE WHETHER THE INFORMATION SHOULD ON FILE BY MARKING THE APPROPRIATE CODE UNDER ITEM #15 and 7 CAN BE FOUND ON THE ATTA | FOR EACH SHED CHEN ITE WHETH APPRO                     | EACH HAZARDOUS MATERIAL CHEMICAL PRODUCTS, CHEMICAL PRODUCTS, CHEMICHETTER THE INFORMATION PROPRIATE CODE UNDER 11 and 7 CAN BE FOUND ON THE | S MATER<br>JCTS, C<br>FORMATI<br>JE UNDE<br>JUND ON | TAL TO B<br>HEMICALS<br>ON SHOUL<br>R ITEM #           |   | E AMENDED THAT IS STORE D BE ADDED, CHANGED OR II. ACHED TABLE OF CODES.                               | E AMENDED THAT IS STORED OR HANDLED AT THE LOCATION SPECIFIED ABOVE. MANUFACTURED OR REPACKAGED, AND CHEMICALS DISTRIBUTED.  BE ADDED, CHANGED OR DELETED FROM THE CURRENT DISCLOSURE THAT THE LICHED TABLE OF CODES.   | ION SPECIFIED ABOVE IBUTED.   | . INCLUDE<br>FIRE DEPARTHENT HAS   |
| ADDITIONAL INSTRUCTIONS: IIEM 1: CHECK APPROPRIATE CODE: "A" INDICATION THAT WAS REPORTED FOR THAT PRODUCT, "Q" INDICATION THE INFORMATION THAT WAS REPORTED FOR THAT PRODUCT, "Q" INDICATIONSTANT HANDLED OR STORED AT ANY ONE TIME AT THE AMOUNT HANDLED OR STORED AT THE ABOVE LOCATION; INCLUDE UNITS (POLY PRODUCT (USE TABLE 1). ILEM 5: CHECK PHYSICAL MAZARDS (USE TABLE 2) FOR GAS). ILEM 7: ENTER THE ONE HAZARD CLASS THAT APPLIES TO THE PHAZARDOUS (SEE ATTACHED LIST OF EXTREMELY MAZARDANS SECTIONS. | CIIONS: ITEM 1: " N THAI WAS REPORT QUANTITY HANGLED ( STORED AT THE ABI E 1). ITEM 5: CHI E NEETHE ONE FIX  | CHECK AP TO OR STORE OVE LOCA' COVE LOCA' AZARD CLUTER | PROPRIATE HAT PRODUK D AT ANY C TION; INCL ICAL HAZAR AZABIGUS   | CODE:   | "A" INDI<br>INDICAT<br>E AT THE<br>ITS (POL<br>E TABLE | CATES A PRODES A PRODE LO MOS, GALL PRODUCT (FINAL PRODUCT) | RODUCT THAT IS<br>UCT THAT HAS B<br>CATION; INCLUD<br>ONS, CUBIC FEE<br>15; CHECK THE<br>USE TABLE 3). | ICATES A PRODUCT THAT IS BEING ADDED TO YOUR EXISTING INVENTORY, "C" INDICATES A CHANGE IES A PRODUCT THAT HAS BEEN DELETED. ENTER THE CHEMICAL OR PRODUCT MAME. ITEM 2: ABOVE LOCATION; INCLUDE UNITS (POUNDS, GALLONS, CUBIC FEET). ITEM 3: ESTIMATE AMMUAL NDS, GALLONS, CUBIC FEET). ITEM 4: LIST ALL THE TYPES OF CONTAINERS USED TO STORE THE 2). ITEM 6: CHECK THE APPROPRIATE PHYSICAL STATE, ("S" FOR SOLID; "L" FOR LIQUID; "G" PRODUCT (USE TABLE 3). ITEM 8: CHECK THIS BOX IF PRODUCT OR ANY INGREDIENT IS EXTREMELY | HING INVENTORY, "C" FENICAL OR PRODUCT ( CUBIC FEET). ILEN TYPES OF CONTAINER TYPES OF SOLID; TYPES OF SOLID; PRODUCT OR ANY IN | INDICATES A CHANGE NAME. IIEN 2; 13; ESTINATE ANNUAL 5 USED TO STORE THE "L" FOR LIQUID; "G" GREDIENT IS EXTREMELY |
| CHEMICAL ABSTRACT   | SERVICE) MANBER  | S FOR EA   | CH HAZARDO   | US ING  | REDIENT  | CUSE YOUR   | MSDS).   | <u> 1167 2: ENTER IMPREDIENTS AND PERCENT OF CONCENTRATION. ILEM 10:</u><br>(USE YOUR MSDS).  | ATION. ITEM 10. E   | NTER THE CAS   |
| A CHENICAL CHENICAL D PRODUCT NAME  | OIL, MOBIL VAC   | VACTRA #3  |  |   |  | :   | HAZAROOUS  | (9)<br>US CHEMICAL INGREDIENTS &<br>PERCENTAGE OF EACH  |   | (10)<br>CAS MAMBERS OF<br>EACH INGREDIENT  |
| (2)<br>HAXIMUN<br>QUANTITY<br>ARY TIME  | (3)<br>TOTAL<br>YEARLY<br>QUANTITY   | (4)<br>STORAGE<br>TYPES                                | (5)<br>E HEALTH &<br>PHYSICAL<br>HAZARDS   | (6)<br>PHYS.<br>STATE                               | (7)<br>HAZARO<br>CLASS                                 | (8)<br>EXTREM-<br>ELY HA-                                   | No hazardous<br>Refined mine   | dous constituents   | M M 70  |  |
| 110 gal.  | 110 gal.   |  | ×  | [×  | 18   | .   |  | 1 1 1   |   |  |
| 2   |  |  |  |   | 9  | # # # # # # # # # # # # # # # # # # #                       |  |   |   |  |
| 3 5   | OIL, MOBIL VAC   | VACTRA #4  |  |   |  |   | HAZARDOU   | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH   |   | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT  |
| (2) HAXIMAN QUANTITY ANY TIME   | (3)<br>101al<br>Yearly<br>Quantity   | (4)<br>STORAGE<br>TYPES                                | (5)<br>HEALTH &<br>PMYSICAL<br>HAZARDS   | (6)<br>PMYS.<br>STATE                               | (7)<br>HAZARD<br>CLASS                                 | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS                        | Refined mineral<br>Sulfurized fats   | ineral oil<br>d fats  | \$05<br>7   |  |
| . 55 gal.   | 55 gal.  | a  | - 7   X   V  | و لا لي   | <b>B</b>   | l   | Polyrsobutylene<br>Additives   | tylene  |   |  |
| FOR OFFICE USE ONLY:  | Y: 1MSP. 10  |  | INSP.  |   |  | CATE  |  | DATA ENTRY 10   | ATA CATOV THIT  | Mic  |

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| LOCATION OF HAZARDOUS MATERIALS: COMPLETE ALL ITEMS IN THIS BOX  | DOUS MATERIALS: C            | COMPLETE J         | ALL ITEMS                              | IN THIS               | ВОХ                    |                               |   | ;  |   |
|--|------------------------------|--------------------|--|-----------------------|------------------------|-------------------------------|---|--|---|
| BUSINESS NAME ALL LEGISTIQUE   | - 1                          | c i ec crouynamics | - 1                                    | 101 S 1 V 1 U         | ON                     | 300                           | 11600 Sherman Way, N.   | Hollywood, CA 91605                          |   |
| ROOM NAME OR NUMBER  | ER                           | . /s               |  | ∌ō<br> <br>           | BUILDING<br>OR UNDERG  | ROUND TAI                     | NAME, UNICOOK AREA,<br>ROUND TANK NUMBERSCutting Oil and Coolant Storage Area | Storage Area                                 |   |
| <b>电影电影电话的现在分词 医多种性 医多种性 医多种性 医多种性 医多种性 医多种性 医多种性 医多种性</b>   | 化化化物 化化化化物 化化化物 化化化物 化二甲基苯甲基 |                    |  |                       | *****                  | ****                          |   | *******************                          |   |
| CHEMICAL CORPIGAL COR | IC #2190 Turbine             | 0,11               | MIL-L-17331                            | 331                   |                        |                               | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH                       | (10)<br>CAS NUMBERS<br>EACH INGREDI          | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT |
|  | (4)                          |                    |  |                       |                        |                               |   | pet.   |   |
| HAXIMUM<br>QUANTITY<br>ANY TIME  | TOTAL<br>YEARLY<br>QUANTITY  | STORAGE<br>TYPES   | (5)<br>HEALTH &<br>PHYSICAL<br>HAZARDS | (6)<br>PHYS.<br>STATE | (7)<br>HAZARD<br>CLASS | EXTREM-<br>ELY HA-<br>ZARDOUS | No hazardous constituents   | <b>M M</b>                                   |   |
| 750 021  |                              | 8                  | N/A                                    | S                     |                        |                               |   | ¥ **   |   |
| , 50 gal.  | 2500 gal.                    |                    | <br> <br> <br>                         | ×                     | व्य                    | 1                             |   | *  |   |
|  |                              |                    | . S.                                   | ای                    |                        |                               |   | *  |   |
| ************   | ****                         |                    | *******                                |                       |                        | *******                       |   | 医多形性 医电影 医电影 医电影 医电影 医电影 医电影 医电影 医电影 医电影 医电影 | *********                                 |
| CHEMICAL  CHEMICAL  OR  OR   | Oil, Mobil Va                | Vactra #2          |  |                       |                        |                               | (9) HAZARDOUS CHEMICAL INGREDIENTS &  | CAS MUMBERS                                  | (10)<br>UMBERS OF                         |
| & Z<br>  |                              |                    |  |                       |                        |                               | [j  | •06  | CACH INCREDIENT                           |
| (2)<br>PAXIPUP   | (3)<br>TOTAL                 | (4)<br>STORAGE     | (5)<br>HEALTH &                        | (6)                   | (7)<br>HAZARD          | (8)<br>EXTREM                 |   | \ 7.¥  |   |
| ANY TIME   | YEARLY<br>QUANTITY           | TYPES              | PHYSICAL<br>HAZAROS                    | STATE                 | TASS .                 | ELY HA-<br>ZARDOUS            |   | <b>1</b>                                     |   |
| 165 gal.   | 385 gal.                     | <u></u>            | × ,                                    | 2                     |                        |                               |   | 1.8  |   |
|  |                              |                    | <b>\</b>                               | ×                     | 8                      | 1                             |   | *  |   |
| 9 9  |                              |                    | ]                                      | 9                     |                        |                               |   | **   |   |
| (ε)  |                              |                    |  |                       |                        |                               |   |  | (10)                                      |
| C CHENICAL   | Mobil Supra                  | 10W-30             |  |                       |                        |                               | HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH                           | CAS R.                                       | CAS NUMBERS OF<br>EACH INGREDIENT         |
|  | 167                          |                    |  |                       |                        |                               | No hazardous constituents   | 14   |   |
| MAXIMUM  | (5)<br>TOTAL<br>YEARLY       | STORAGE<br>TYPES   | HEALTH &                               | (6)<br>PHYS.<br>STATE | HAZARD                 | EXTREM-                       | Refined mineral oils / 8  | >85.8  |   |
|  | <u> </u>                     |                    | HAZARDS                                |                       | 3                      | ZARDOUS                       | additives <   | <15.x  | ,   |
| 165 gal.   | 165 gal.                     | B                  | ×                                      | 2                     |                        |                               |   | <b>&gt;4</b>                                 |   |
|  |                              |                    |  | ي لخ                  | <b>A</b>               |                               |   | 34 H   |   |
|  |                              |                    | -                                      |                       |                        | -processor                    |   |  |   |
| FOR OFFICE USE ONLY;   | 7: INSP. 10                  |                    | INSP. INT.                             | IMT.                  |                        | DATE                          | DATA ENTRY ID DATA  | DATA ENTRY INIT DATE                         |   |

| ANVERIONI                               |
|---|
| MILKIALS                                |
| · · · · ARIUM                           |
| * |
| NEWSTER                                 |
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| Y.                                      |

INSTRUCTIONS: READ ALL THE INSTRUCTIONS BELOW AND PHOTOCOPY EXTRA COPIES OF THIS FORM BEFORE COMPLETING IT. (REPORT HAZARDOUS WASTE OM PART C)

1. COMPLETE A SEPARATE FORM FOR EACH BUILDING, OUTDOOR AREA, ROOM OR UNDERGROUND TANK IN WHICH HAZARDOUS MATERIALS INVENTORY IS BEING AMENDED.

USE BOX BELOW TO SPECIFY THE LOCATION OF THE HAZARDOUS MATERIALS LISTED ON THIS FORM.

ö

0-100 0-0070

\* 715

11600 Sherman Way, N ADDRESS BUILDING NAME, OUTDOOR AREA, OR UNDERGROUND TANK NUMBERS. Electrodynamics Division 57 BUSINESS NAME Allied-Signal ROOM NAME OR NUMBER

CA 91605

Hollywood,

COMPLETE ITEMS 1-10 FOR EACH HAZARDOUS MATERIAL TO BE AMENDED THAT IS STORED OR HANDLED AT THE LOCATION SPECIFIED ABOVE. INCLUDE RAW MATERIALS, FINISHED CHEMICAL PRODUCTS, CHEMICALS MANUFACTURED OR REPACKAGED, AND CHEMICALS DISTRIBUTED.
MAKE SURE YOU INDICATE WHETHER THE INFORMATION SHOULD BE ADDED, CHANGED OR DELETED FROM THE CURRENT DISCLOSURE THAT THE FIRE DEPARTMENT HAS ON FILE BY MARKING THE APPROPRIATE CODE UNDER ITEM #1.

THE CODES IN ITEM 4, 5 and 7 CAN BE FOUND ON THE ATTACHED TABLE OF CODES.

ADDITIONAL INSTRUCTIONS: ITEM 1: CHECK APPROPRIATE CODE: "A" INDICATES A PRODUCT THAT IS BEING ADDED TO YOUR EXISTING INVENTORY, "C" INDICATES A CHANGE IN THE INFORMATION THAT WAS REPORTED FOR THAT PRODUCT. "O" INDICATES A PRODUCT THAT HAS BEEN DELETED. ENTER THE CHEMICAL OR PRODUCT MANE. ILEM 2: ESTIMATE AXIMUM QUANTITY HANDLED OR STORED AT ANY CHÉ TÎME AT THE ABOVE LOCATION; INCLUDE UNITS (POUNDS, GALLONS, CUBIC FEET). ILEM 4: LIST ALL THE TYPES OF CONTAINERS USED TO STORE THE PRODUCT (USE TABLE 1). ILEM 5: CHECK PHYSICAL HAZMADS (USE TABLE 2). ILEM 6: CHECK THIS APPROPRIATE PHYSICAL HAZMADS (USE TABLE 2). ILEM 8: CHECK THIS BOX IF PRODUCT OR ANY INGREDIENT IS EXTREMELY FOR GAS). ILEM 7: ENTER THE ONE HAZMAD CLASS THAT APPLIES TO THE PRODUCT (USE TABLE 3). ILEM 8: CHECK THIS BOX IF PRODUCT OR ANY INGREDIENT IS EXTREMELY HAZMADOUS SUBSTANCES). ILEM 8: CHECK THIS BOX IF PRODUCT OR ANY INGREDIENT IS EXTREMELY HAZMADOUS SUBSTANCES). ILEM 8: ENTER INGREDIENTS AND PERCENT OF CONCENTRATION. ILEM 10: ENTER THE CAS (CHEMICAL ABSIRACE) NAMBERS FOR EACH HAZMADOUS INGREDIENT (USE YOUR HSDS).

|  | - 他们在在我们的现在分词,我们就是我们的现在分词,我们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们 |                |                  |       |             | ****               |   |           | 化化分子 经存货 化二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基 |
|--|---|----------------|------------------|-------|-------------|--------------------|---|-----------|---|
| A CHENICAL C C C C C C C C C C C C C C C C C C C | M&M Honing Oil  | <del></del>    |                  |       |             | •                  | (9) HAZARDOUS CHENICAL INGREDIENTS & PERCENTAGE OF EACH |           | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT         |
| \$ (c)   | 14/   |                |                  |       |             |                    |   | *         |   |
| MULITAN  | TOTAL   | STORAGE        | STORAGE HEALTH   |       | #243)       | EXTREM             | Deodorized Kerosene                                     | 30-60     | 8008-20-6   |
| ANY TINE   | QUANTITY  | - 4ES          | HAZARDS          |       | STATE CLASS | ELY HA-<br>ZARDOUS | Turpentine  | 10-30     | 8006-64-2   |
| 270 gal.   | 110 gal.  | <u>م</u>       | × ,              | 8     |             | •                  | Mineral Oil   | 10-30     | 64741-96-4  |
|  |   |                | X -              | ¥     | म           |                    |   | ×         |   |
|  |   |                | 4.80             | ای    |             |                    |   | <b>*</b>  |   |
|  |   | ********       |                  | ***** |             |                    |   |           |   |
| 5  | HYDRAIII IC OII DIE 24  | ווייי          | 2.4              |       |             |                    | (9) HAZARDOUS CHENICAL INGREDIENTS &                    |           | (10)<br>CAS MURBERS OF                            |
| 0 PRODUCT  |   | ר<br>ר         | F<br>J           |       |             |                    | PERCENIAGE OF EACH                                      | 1         | EACH INGREDIENT                                   |
| (2)<br>MAXIMUM<br>QUANTITY                       | (3)<br>101AL<br>YFARIY  | (4)<br>STORAGE | STORAGE HEALTH & |       |             | (8)<br>EXTREM-     | No hazardous constituents                               |           |   |
| ANY TINE   | QUANTITY  | 3              | HAZARDS          | SIAIE | ŝ           | ZARDOUS            | Refined Mineral Oils                                    | > 95x     |   |
| 220 gal.   | 385 gal.  | <u></u>        | ×                | S     |             | <del></del>        | Additives   | <b>5x</b> |   |
|  | ************  |                |                  | ×     | 118         |                    |   | *         |   |
|  |   |                | 2                | ي     |             |                    | -   | 1         |   |

PATE

DATA ENTRY INIT

DATA ENTRY 10

RIE

FOR OFFICE USE ONLY:

| PARI B AMENDHEN                              | IOR IMZARDOUS MATERIALS INVENTORY          | TERIALS                                | INVENTOR                               |                                | -                                     |                                      | <b>-</b>  | LAFD # 026645-001-6  |                    | PAGE - OF -                               |
|--|--|--|--|--------------------------------|---------------------------------------|--------------------------------------|---|--|--------------------|---|
|  | <b>9</b>                                   | : COMPLETE ALL ITER<br>Electrodynamics |  | <b>s in THIS (</b><br>Division | <b>S BOX</b><br>On                    |                                      | ADORESS   | 11600 Sherman Way, N. Hol                                      | Hollywood, C.      | CA 91605                                  |
| ROOM NAME OR NUMBER                          | RS7  | -                                      |  |                                | BUTLDIN<br>OR UNDE                    | G NAME, ON<br>RGROUND TA             | BUILDING NAME, OUTDOOR AREA,<br>OR UNDERGROUND TANK NUMBERS | Cutting Oil and Coolant  | Storage Area       | еа  |
| A CHEMICAL                                   | Copeco #9058                               | (Cutting                               | ing Fluid)                             | (Pi                            | # # # # # # # # # # # # # # # # # # # | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | HAZARD  | (1) (2) (3) (4) (5) (6) (70) (70) (70) (70) (70) (70) (70) (70 |                    | (10)<br>CAS NUMBERS OF                    |
| NAME (2)                                     | (3)  |  | `                                      |                                |                                       |                                      | Trade se  | secret formulation   | ×                  |   |
| PAXIMUM                                      | TOTAL<br>YEARLY                            | STORAGE<br>TYPES                       |  | PHYS.                          | HAZARD<br>CLASS                       | EXTREM-                              | Refined   | solvent  | **                 |   |
| 110 gal.                                     | QUANTITY<br>165 qal.                       | σ.                                     | HAZARDS                                |                                |                                       | · /4                                 | Petroleum   | mixture  | <b>1</b>           |   |
| )  |  |  | <br> <br> -<br>                        | ×                              | 18                                    |                                      | na contract   |  | * *                |   |
|  | ļ  | 1                                      | 42                                     | <u>ل</u>                       |                                       |                                      |   |  | *                  |   |
|  | *************                              | ****                                   | ******                                 | *******                        |                                       |                                      |   |  |                    |   |
| CHEMICAL  CHEMICAL  CON  D  PRODUCT  PRODUCT | Micronic Hydra                             | Hydraulic F                            | Fluid M                                | MIL-H-46170B                   | .6170B,                               | Type I                               | HAZARO  | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH        |                    | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT |
| (2)<br>HAXIMM<br>QUANTITY<br>ANY TIME        | (3)<br>TOTAL<br>YEARLY<br>QUANTITY         | (4)<br>STORAGE<br>TYPES                | (5)<br>HEALTH &<br>PHYSICAL            | (6)<br>PHYS.                   | (7)<br>HAZARD<br>CLASS                | W W 1                                | Synthetic hydro   | Synthetic hydrocarbon base 70 Lubricant ester 25.              | <b>&gt;4 &gt;4</b> |   |
| 600 gal.                                     | 600 gal.                                   | 4                                      | <u> </u>                               | 8                              |                                       | ZAKUOUS                              |   |  | <b>,</b> , ,       |   |
|  |  |  | 4 m 4 m                                | ل اد                           | <b>=</b>                              |                                      |   |  | 14 34              |   |
|  | - 化二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基 |  |  |                                |                                       | ********                             | *********   |  | ************       | 中国中华华国际市场等等的市场的 医多点流电点 医原生物               |
| C CHEMICAL OR PRODUCT                        | Anti-Rust Seal                             | NC-203                                 | 3                                      |                                |                                       |                                      | HAZARD  | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH        |                    | (10)<br>CAS MUMBERS OF<br>EACH INGREDIENT |
| (2)<br>MAXIMUM<br>QUANTITY<br>ANY TIME       | (3)<br>TOTAL<br>YEARLY<br>QUANTITY         | (4)<br>STORAGE<br>TYPES                | (S)<br>HEALTH &<br>PHYSICAL<br>HAZARDS | (6)<br>PHYS.<br>STATE          | (7)<br>HAZARD<br>CLASS                | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS | Sodium  | nitrate 20   | 7632-00            |   |
| 110 gal.                                     | 110 gal.                                   | 41                                     | -064N                                  | ی اد ای                        | <u>11</u>                             | 1                                    | -   |  | . ** ** 1          |   |
| FOR DEFICE USE ONLY:                         | INSP. 10                                   |  | INSP.                                  | INSP. INT.                     |                                       | DATE                                 |   | DATA ENTRY ID DATA   | DATA ENTRY INIT    | DATE                                      |

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INSTRUCTIONS: READ ALL THE INSTRUCTIONS BELOW AND PHOTOCOPY EXTRA COPIES OF THIS FORM BEFORE COMPLETING IT. (REPORT HAZARDOUS WASTE ON PART C)

1. COMPLETE A SEPARATE FORM FOR EACH BUILDING, OUTDOOR AREA, ROOM OR UNDERGROUND TANK IN WHICH HAZARDOUS MATERIALS INVENTORY IS BEING AMENDED.

USE BOX BELOW TO SPECIFY THE LOCATION OF THE HAZARDOUS MATERIALS LISTED ON THIS FORM.

LOCATION OF HAZARDOUS MATERIALS: COMPLETE ALL ITEMS IN THIS BOX

Electrodynamics Division S<sub>2</sub> BUSINESS NAME Allied-Signal

ROOM NAME OR NUMBER

BUILDING NAME, OUTDOOR AREA, OR UNDERGROUND TANK NUMBERS.

11600 Sherman Way, N. Hollywood, CA 91605 ADDRESS

and Coolant Storage Area

. Cutting Oil

COMPLETE ITEMS 1-10 FOR EACH HAZARDOUS MATERIAL TO BE AMENDED THAT IS STORED OR HANDLED AT THE LOCATION SPECIFIED ABOVE. INCLUDE RAW MATERIALS, FINISHED CHEMICAL PRODUCTS, CHEMICALS MANUFACTURED OR REPACKAGED, AND CHEMICALS DISTRIBUTED.

MAKE SURE YOU INDICATE WHETHER THE INFORMATION SHOULD BE ADDED, CHANGED OR DELETED FROM THE CURRENT DISCLOSURE THAT THE FIRE DEPARTMENT HAS ON FILE BY MAKKING THE APPROPRIATE CODE UNDER ITEM #1.

THE CODES IN ITEM 4, 5 and 7 CAN BE FOUND ON THE ATTACHED TABLE OF CODES.

ADDITIONAL INSTRUCTIONS. ITEM 1: CHECK APPROPRIATE CODE: "A" INDICATES A PRODUCT THAT IS BEING ADDED TO YOUR EXISTING INVENTORY, "C" INDICATES A CHANGE IN THE INFORMATION THAT WAS REPORTED FOR THAT PRODUCT, "Q" INDICATES A PRODUCT THAT HAS BEEN DELETED, ENTER THE CHEMICAL OR PRODUCT NAME. ITEM 2: ESTIMATE ANNUAL ANCHORS, CALLONS, CALL (CHEMICAL ABSTRACT SERVICE) MANBERS FOR EACH HAZARDOUS INGREDIENT (USE YOUR MSDS)

|                |                             |                |                               |              |               |                    |   | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · ·     |
|----------------|-----------------------------|----------------|-------------------------------|--------------|---------------|--------------------|---|---------------------------------------|---|
| ತೆ ಕ           | PETROCHEM 108 (SOLUBLE OIL) | (SOLUBL        | E 01L)                        |              |               | -                  | (9) HAZARDOUS CHENICAL INGREDIENTS & PERCENTAGE OF EACH |                                       | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT |
| W.             | 131                         |                |                               |              |               |                    |   | *                                     |   |
| MAXIMIN        | TOTAL                       | STORAGE        | STORAGE HEALTH &              | (6)<br>PHYS. | (7)<br>HAZARD | (8)<br>Extrem-     | Pale Oil  | 24 🕱                                  |   |
| ANY TIME       | QUANTITY                    | 3              | HAZAROS                       | SIAIE        | CLASS         | ELY HA-            | Petroleum Distillates                                   | 48 🕱                                  |   |
| 55 gal.        | 220 gal.                    | <u>س</u> ا     | . ∡'                          | S            |               | •                  |   | 74                                    |   |
|                |                             |                | 3,                            | ار×          | 18            |                    |   | 34                                    |   |
|                |                             |                | *\ <u>\</u>                   | اي           |               |                    |   | <b>*</b>                              |   |
|                |                             |                |                               |              |               |                    |   |                                       |   |
| A CHEMICAL     |                             |                |                               |              |               |                    | (9) HAZARDOUS CHEMICAL INGREDIENTS 4                    |                                       | (01)<br>(01)                              |
| PRODUCT CO.    | STOKES V LUBE               |                |                               |              |               |                    | PERCENTAGE OF EACH                                      | ,                                     | EACH INGREDIENT                           |
| (2)<br>HAXIMIN | (3)<br>TOTAL                | (4)<br>STORAGE | STORAGE HEALTH & PHYS. HAZARD | (6)<br>PHYS. | (7)<br>HAZARD | (8)<br>EXTREM-     | Solvent Refine Heavy Distillate                         | <b>1</b>                              |   |
| ANY 1116       | QUANTITY                    | TYPES          | PHYSICAL<br>HAZARDS           | STATE CLASS  | CLASS         | ELY HA-<br>ZARDOUS | Methacrylate Copolymer                                  | ₹ 64741-88-4                          | 38-4                                      |
| 165 gal.       | 165 gal.                    | 8              | N/A                           | <u>د</u>     | •             | ····               | Trace Silicone Polymer                                  | **                                    |   |
|                | -                           |                | <u> </u>                      | ×            | 118           |                    | Solvent Refined Residuum                                | ₹ 64742-01-4                          | 11-4                                      |

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| INVENTORY                        |
|----------------------------------|
| FOR HAZARDOUS MATERIALS INVENTOR |
| R HAZARDOUS                      |
| 5                                |
| AMEND                            |
| PART B                           |

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| LOCATION OF HAZARDOUS MATERIALS: COMPLETE ALL ITEMS IN THIS BOX | S MATERIALS: CO | MPLETE A        | L TTEMS IN    | THIS BO          |                 |               |   |                                |
|---|-----------------|-----------------|---------------|------------------|-----------------|---------------|---|--------------------------------|
| BUSINESS NAME Allie   | nal             | Electrodynamics | - 1           | Division<br>BUIL | 9N10            | AME, OUT      |   | 1, CA 91605                    |
| ROOM NAME OR MUMBER   | \$7             |                 |               | 0R (             | OR UNDERGR      | OUND TAIN     | <pre>wumbers Cutting Oil and Coolant Stor</pre>     | Storage Area                   |
|   |                 |                 |               |                  |                 |               |   |                                |
| CHEMICAL Tex  | Texaco EDM Cut  | Cutting Fl      | Fluid         |                  |                 |               | HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH | CAS NUMBERS OF EACH INGREDIENT |
| <u></u>   |                 | -               |               |                  |                 |               | No hazardous constituents                           |                                |
| (2)   | (3)             | (4)             | (5)           | (9)              | _               | (8)           | •   |                                |
| QUANTITY  | YEARLY          | TYPES           | PHYSICAL      | STATE CU         | CLASS           | ELY HA-       |   |                                |
|   |                 |                 | MZAKUS        |                  | <del>-</del>    | ARICOUS       |   |                                |
| 220 gal.  | 880 gal.        | ႕               | × × v         |                  |                 |               |   | ,                              |
|   |                 |                 | <u>-</u><br>  | -<br> <br>       | 118             |               | **  |                                |
|   |                 |                 | <u>ئ</u><br>ا |                  |                 |               | <b>34</b>   |                                |
|   | ************    |                 | *******       |                  |                 | ***           |   |                                |
|   |                 |                 |               | -                |                 | -             | (0)   | (01)                           |
| HEMICAL<br>OR<br>PORINCT  | Calgon P3576    |                 |               |                  |                 |               | HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH | CAS NUMBERS OF EACH INGREDIENT |
| 1   |                 |                 |               |                  |                 |               | 1.1.1 Trichloroethane 100 X                         | 71-35-6                        |
| HAXIMUM   | (3)<br>TOTAL    | (4)<br>STORAGE  |               | (6)<br>PHYS. HA2 | (7)<br>HAZARD E | (8)<br>EXTREM |   |                                |
| ANY TIME  | YEARLY          | TYPES           | 75            | TATE CU          |                 | ELY HA-       | ×   |                                |
| 275 gal.  | 1200 gal.       | d               | - <u>x</u>    |                  | <u>-</u>        |               | *   |                                |
| `   | ,               | )               | 35            |                  |                 |               |   |                                |
|   |                 |                 | <b>4</b> %    | <u> </u>         | 1               | 1             | **  |                                |
| · · · · · · · · · · · · · · · · · · ·                           | ****            |                 |               |                  |                 |               |   |                                |
| CHEMICAL  | Houghton Qu     | Quench K        | (oil)         |                  |                 |               | (9) HAZARDOUS CHEMICAL INGREDIENTS &                | (10)<br>CAS NUMBERS OF         |
| 0 PRODUCT   |                 |                 |               |                  |                 |               | renewings of the                                    |                                |
| (2)   | (3)             | (4)             | (5)           | ) (9)            | (7)             | (8)           | Mineral Oil   | 64741-29-5                     |
| MAXIMON   | TOTAL           | STORAGE         | HEALTH &      | •                | 0               | EXTREM        | *   | 64741-44-2                     |
| ANY TIPE  | QUANTITY        | 2               | HAZARDS       | A I E            |                 | ZARDOUS       | 14  | 64742-54-7                     |
| 55 gal.   | 55 gal.         | 67              | ×ı            |                  | · <del></del>   |               |   |                                |
|   |                 |                 | 3 -           | L X 1B           | <u> </u>        |               | *   |                                |
|   |                 |                 | <b>₩</b>      | 1 1              | · · · ·         |               | *   |                                |
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INSTRUCTIONS: READ ALL THE INSTRUCTIONS BELOW AND PHOTOCOPY EXTRA COPIES OF THIS FORM BEFORE COMPLETING IT. (<u>REPORT HAZARDOUS MASTE ON PART C)</u>

1. COMPLETE A SEPARATE FORM FOR EACH BUILDING, OUTDOOR AREA, ROOM OR UNDERGROUND TANK IN WHICH HAZARDOUS MATERIALS INVENTORY IS BEING AMENDED.
USE BOX BELOW TO SPECIFY THE LOCATION OF THE HAZARDOUS MATERIALS LISTED ON THIS FORM.

COMPLETE ALL ITEMS IN THIS BOX. LOCATION OF HAZARDOUS MATERIALS: BUSINESS NAME

Allied-Signal Electrodynamics Division

ROOM NAME OR NUMBER

BUILDING NAME, OUTDOOR AREA, Cutting Oil and Coolant Storage Area OR UNDERGROUND TANK NUMBERS. 11600 Sherman May, N. Hollywood, CA ADDRESS S

COMPLETE ITEMS 1-10 FOR EACH HAZARDOUS MATERIAL TO BE AMENDED THAT IS STORED OR HANDLED AT THE LOCATION SPECIFIED ABOVE. INCLUDE RAW MATERIALS, FINISHED CHEMICAL PRODUCTS, CHEMICALS MANUFACTURED OR REPACKAGED, AND CHEMICALS DISTRIBUTED. MATHER THE INFORMATION SHOULD BE ADDED, CHANGED OR DELETED FROM THE CURRENT DISCLOSURE THAT THE FIRE DEPARTMENT HAS ON FILE BY MAKING THE APPROPRIATE CODE UNDER ITEM #1.

| (1)               | ) ( CONTRACTOR OF THE PROPERTY | *****          | *****                       |               |    | NAT TON |               |                                |
|-------------------|--|----------------|-----------------------------|---------------|----|---------|---------------|--------------------------------|
| CHEMICAL<br>OR OR | Fremont 204 (Defoamer)   | 204 (De        | foamer)                     |               |    |         | HAZABDONI (9) | (10)                           |
| PRODUCT NAME      |  |                |                             |               |    |         | C             | CAS NUMBERS OF EACH INGREDIENT |
| HAXIMUM           | (3)<br>TOTAL   | (4)<br>STORAGE | (4) (5)<br>STORAGE HEALTH & | (9)           |    | (8)     | 2             | 0-07-00                        |
| ANY TINE          | YEARLY<br>QUANTITY   | TYPES          | PHYSICAL STATE CLASS        | L STATE CLASS | _  | ELY HA- | 74            |                                |
| 110 gal.          | 110 gal.   | മ              | ×                           | <u></u>       |    | COOCOCO | <b>X</b>      |                                |
|                   | •  |                | 7                           | ×             | 18 | •       | 74            |                                |
| •                 |  |                | 4.0                         | ]             |    |         | 74            |                                |
|                   |  |                |                             |               |    |         | *             |                                |

| Ê                                       |                          |          |                       |            |                    |                    |            |                                |
|---|--------------------------|----------|-----------------------|------------|--------------------|--------------------|------------|--------------------------------|
| CHEMICAL                                | Fremont 3045 (Cleaner)   | 045 (CI) | eaner)                |            |                    | (6)                |            | (10)                           |
| PRODUCT                                 |                          |          |                       |            |                    | PERCENTAGE OF EACH | •          | CAS NUMBERS OF EACH INGREDIENT |
| (2)                                     | (3)                      | (4)      | (5)                   | 1 13/      |                    | 2-Butoxyethanol    | 2.5        | 111-76-2                       |
| HAXIMUM<br>QUANTITY                     | TOTAL<br>YEARLY          | STORAGE  | HEALTH & PHYS. HAZARD | PHYS.      | <br>(8)<br>EXTREM- | Sodium Silicate    | 4.1.       | 1344-09 -8                     |
| ANY TIME                                | QUANTITY                 | ?        | HAZARDS               | SIAIR<br>F | <br>ZARDOUS        |                    | <b>4</b> ' |                                |
| 330 gal.                                | 330 gal.                 | മ        | ×                     |            |                    |                    | P4         |                                |
|   |                          |          |                       | ,  ×       |                    |                    | *          |                                |
| • ;                                     |                          |          |                       | ا ا        | <br>               |                    | **         |                                |
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| PART B AMENDET Y   | FOR HAZARDOUS MATERIALS INVENTORY  | ATERIALS                | INVENTORY  |                                  |                                  | (,   |                 | 0 مرما                                  | 026645-001-6             |                 | PAGE         | OF.                                       |
|--|------------------------------------|-------------------------|--|----------------------------------|----------------------------------|--|-----------------|---|--------------------------|-----------------|--------------|---|
| I OCATION OF HAZARDO   | HAZARIONIS MATERIALS               | A LOND                  | The state of the s |                                  |                                  | ٠.   |                 |   | ;                        |                 |              | 1   |
|  | - 1                                | Electro                 | Electrodynamics  | IN THIS<br>Divisi                | <b>80X</b><br>0u                 |  | <b>4</b> 000566 | 11600 She                               | Sherman Way, N.          | Hollywood       | od, CA 91505 |   |
| ROOM NAME OR NUMBER  | 88                                 |                         |  | BUIL                             | BUILDING NAME,<br>OR UNDERGROUND | NAME, OUTDO                                  | OUTDOOR AREA    | Flammable                               | Storage Area             | a               |              |   |
|  |                                    |                         |  | ****                             |                                  | *****  |                 |   |                          |                 |              |   |
| CHEMICAL K   | Kester-Freon                       | #5120 (                 | (Vapor De  | Degreasing                       | g Solv                           | vent)  | HAZARDOUS       | (9)<br>OUS CHEMICAL<br>PERCENTAGE C     | INGREDIENTS &            |                 | 223          | CAS NUMBERS OF                            |
|  |                                    |                         |  |                                  |                                  | <b>  </b>                                    | Isopropyl       | Alcohol                                 |                          | 12 🗸            | 67-63-0      | TOUR TOUR TOUR TOUR TOUR TOUR TOUR TOUR   |
| MAXIMUM<br>QUANTITY<br>ANY TIME  | (3)<br>TOTAL<br>YEARLY             | (4)<br>STORAGE<br>TYPES | (5)<br>HEALTH &<br>PHYSICAL  | (6)<br>PHYS.<br>STATE            | (7)<br>HAZARD EX<br>CLASS EL     | EXTREM-                                      | Methyl Ch       | Chloroform                              |                          | 09              | 71-55-6      |   |
|  |                                    | 8                       | HAZARDS  |                                  |                                  |  | Freon TF        | irichiorotrifiuoroethane<br>Freon TF    | etnane                   | <b>*</b>        | 76 13 1      |   |
| 165 gal.   | 165 gal.                           |                         | <br>   <br>  | ر ا<br>د ا                       |                                  | .  | richlomo        | Trichlomonofluoromethane                | ethane                   | lφ              | - 69         |   |
|  |                                    |                         | 4 N  | ·<br>·                           | 1                                | <u>                                     </u> |                 |   |                          | 4               |              |   |
| 在 电电子 医电子 医电子 医电子 医电子 医电子性 医电子性 医电子性 医电子性  | "我我我我就是我我我我我我们的我们                  |                         | ****   |                                  |                                  |  |                 |   |                          |                 |              |   |
| CHEMICAL CHEMICAL D PRODUCT NAME   |                                    |                         |  |                                  |                                  |  | HAZARDO         | (9)<br>Hazardous Chemical<br>Percentage | INGREDIENTS &<br>OF EACH |                 | 33           | CAS MUNBERS OF<br>EACH INGREDIENT         |
| (2)<br>MAXIMUM<br>QUANTITY<br>ANY TIME   | (3)<br>TOTAL<br>YEARLY<br>QUANTITY | (4)<br>STORAGE<br>TYPES | (5)<br>HEALTH E<br>PHYSICAL<br>HAZARDS   | (6)<br>PHYS.<br>STATE            | (7) HAZARD EX CLASS EL           | (8)<br>EXTREM-<br>ELY NA-<br>ZARDOUS         |                 |   |                          | * *             |              |   |
|  | ٠                                  |                         |  | S                                | ·                                |  |                 |   |                          |                 |              |   |
|  |                                    |                         | W 4 W  | ا ا                              | ·<br>                            | <u> </u>                                     |                 |   |                          | * *             |              |   |
| 在在我们的有些有的,我们就是我们的有的,我们就是我们就是我们的,我们就是我们的,我们就是我们就是我们的,我们就是我们就是我们的,我们就是我们就是我们的,我们就是我们就是我们的,我们就是我们就是我们就是我们就是我们的,我们就是我们就是我们的,我们就是我们就是我们就是我们就是我们就是我们就是我们就是我们就是我们的,我们就是我们就是我们就是我们就是我们就是我们就是我们就是我们就是我们就是我们就是 |                                    |                         |  | *****                            |                                  | *******                                      | *********       | ***********                             |                          |                 |              |   |
| CHEMICAL OR PRODUCT  | İ                                  |                         |  |                                  |                                  |  | HAZARDOUS       | US CHEMICAL<br>PERCENTAGE               | INGREDIENTS & OF EACH    |                 | CAS<br>EAC   | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT |
| (2)<br>MAXIMUM<br>QUANTITY<br>ANY TIME   | (3)<br>10tal<br>Yearly<br>Quantity | (4)<br>STORAGE<br>TYPES | (S)<br>HEALTH &<br>PHYSICAL<br>HAZARDS   | (6) (7) PHYS. HAZARD STATE CLASS |                                  | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS         |                 |   |                          | 4 4             |              |   |
|  |                                    |                         | -25.42   | ل ار ار                          |                                  | <u>                                     </u> |                 |   |                          | <b>24</b> 24 24 |              |   |
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| PAKT B AMENUMENT  | ANEMINE, HOR HAZARDOUS MATERIALS INVENTURY   | HERIALS I   | INVENTURY  |  |  | •   | E  | LAFD # UZDO4  | 0-100-040470  | PAGE OF   | ı         |
|---|--|---|--|--|--|---|--|---|---|---|-----------|
| INSTRUCTIONS: REA<br>1. COM   | ANSTRUCTIONS: READ ALL THE INSTRUCTIONS BELOW AND PHOTOCOPY EXTRA  1. COMPLETE A SEPARATE FORM FOR EACH BUILDING, OUTDOOR USE BOX BELOW TO SPECIFY THE LOCATION OF THE HAZARD  | TIONS BEL<br>FORM FOR<br>CLIFY THE                            | OW AND PHOTOCOPY EXTRA<br>EACH BUILDING, QUIDOOR,<br>LOCATION OF THE HAZARDO   | OTOCOPY<br>DING, OC<br>OF THE P  |  | OPLES OF REA, ROOK  | THIS FORM BI<br>TOR UNDERGROALS  | COPIES OF THIS FORM BEFORE COMPLETING IT. (REPORT HAZARDOUS WASTE ON PART C) AREA, ROOM OR UNDERGROUND TANK IN WHICH HAZARDOUS MATERIALS INVENTORY IS BEING AMENDED. US MATERIALS LISTED ON THIS FORM.  | HAZARDOUS WA<br>S MATERIALS IN  | SIE ON PART C)<br>NENTORY IS BEING AMENDED  |           |
| LOCATION OF HAZARDOUS MATERIALS:  | l  | COMPLETE  | COMPLETE ALL ITEMS IN THIS BOX.  | IN THIS  | <b>B</b> 0X.   |   |  |   |   |   | ſ <u></u> |
| BUSINESS NAME All I   | ied-Sinnal<br>S8   | lectrod   | Electrodynamics  | Division<br>BUIL<br>OR U   | 9  | , NAME, OU<br>GROUND TAI  | ADDRESS<br>OUTDOOR AREA,<br>TANK NUMBERS.  | 11600 Sherman May, N.<br>Flammable Storage Area   | . Hollywood   | CA 91605  | T         |
| 2. COM<br>RAV<br>3. MAKI  | COMPLETE ITEMS 1-10 FOR RAW MATERIALS, FINISHED MAKE SURE YOU INDICATE VON FILE BY MARKING THE ATHE CODES IN ITEM 4, 5 a   | FOR EACH<br>HED CHEMI<br>TE WHETHE<br>HE APPROP<br>S and 7    | HAZARDOUS<br>CAL PRODU<br>R THE INF<br>RIATE COU                               | HATERIA<br>CTS, CHE<br>COSMATION<br>E UNDER<br>UND ON 1                        | AL TO BE<br>MICALS<br>SHOULD<br>ITEM #1                | MANUFACTI<br>BE ADDEI<br>CHED TAB   | THAT IS STORMED OR REPAGED OF CHANGED OF CODES.  | COMPLETE ITEMS 1-10 FOR EACH HAZARDOUS MATERIAL TO BE AMENDED THAT IS STORED OR HANDLED AT THE LOCATION RAW MATERIALS, FINISHED CHEMICAL PRODUCTS, CHEMICALS MANUFACTURED OR REPACKAGED, AND CHEMICALS DISTRIBUME SURE YOU INDICATE WHETHER THE INFORMATION SHOULD BE ADDED, CHAMGED OR DELETED FROM THE CURRENT ON FILE BY MARKING THE APPROPRIATE COUE UNDER ITEM #1.  THE CODES IN ITEM 4, 5 and 7 CAN BE FOUND ON THE ATTACHED TABLE OF CODES.  | ION SPECIFIED<br>IBUTED.<br>DISCLOSURE THA  | LOCATION SPECIFIED ABOVE. INCLUDE DISTRIBUTED. RRENT DISCLOSURE THAT THE FIRE DEPARTMENT HAS  | ٦         |
| ADDITIONAL INSTRUCTIONS: IIEM 1: CHECK APPROPRIATE CODE: "A" INDICATE: IN THE INFORMATION THAT WAS REPORTED FOR THAT PRODUCT, "Q" INDICATES A ESTIMATE MAXIMUM QUANTITY HANDLED OR STORED A ANY ONE THE AT THE ABOVANOUNT HANDLED OR STORED AT THE ABOVE LOCATION; INCLUDE UNITS (POUNDS, PRODUCT (USE TABLE 1). IIEM 5: CHECK PHYSICAL HAZARDS (USE TABLE 2). FOR GAS). IIEM 7: ENTER THE ONE HAZARD CLASS THAT APPLIES TO THE PRODUCT (SEE ATTACHED LIST OF EXTREMELY HAZARDOUS SUBSTANCES). IIEM (CHEMICAL ADSTRACES). | CTIONS: ITEM 1: VI THAT WAS REPORT OF WATER HANDLED OF THE ABILE 1). ITEM 5: CHI ENTER THE ONE HAID CASE OF EXILED O | CHECK APP<br>OR STORED<br>OVE LOCAT<br>ECK PHYSI<br>AZARD CLA | ROPRIATE AT PRODUC AT ANY OF ION; INCLE CAL HAZAR SS THAT A AZARDOUS H HAZARDO | CODE: "A<br>I, "D" I<br>NE TIME<br>UDE UNIT<br>DS (USE<br>PPLIES T<br>SUBSTANC | "INDICATE NOICATE AT THE S (POUN TABLE 2 O THE PES). I | ATES A PRODO S A PRODO LOS, GALL( ). IIEM PRODUCT ( ) IIEM PRODUCT ( ) USE YOUR | COUCT THAT INCLUDES THAT INCLUDES TOURS CURICE FIRE STATEMENT THE THERE THE THERE THERE THERE THERE THE THERE THE THERE THE THERE THE THERE THE THERE THE THE THERE THE THE THE THE THE THE THE THE THE TH | CATES A PRODUCT THAT IS BEING ADOED TO YOUR EXISTING INVENTORY, "C" INDICATES A CHANGE ES A PRODUCT THAT HAS BEEN DELETED, ENTER THE CHENICAL OR PRODUCT MANE. ILEM 2: ABOVE LOCATION; INCLUDE INTIS (POUNDS, GALLONS, CUBIC FEET). ILEM 3: ESTIMATE ANNUAL NOS, GALLONS, CUBIC FIFT) IS STORE THE TYPES OF CONTAINES USED TO STORE THE PRODUCT (USE TABLE 3). ILEM 8: CHECK THIS PAYSICAL STATE, ("S" FON SOLID; "L" FOR LIQUID; "G" ILEM 9: ENTER INGREDIENT IS EXTREMENTED 9: ENTER INGREDIENT AND PERCENT OF CONCENTRATION. ILEM 10: ENTER THE CAS (USE YOUR MSDS). | FING INVENTORY FEMICAL OR PRO CUBIC FEET). TYPES OF CONT TYPES OF CONT F. ("S" FOR SO F. PRODUCT OR A VATION. JIEM. | SMTORY, "C" INDICATES A CHANGE DR PRODUCT NAME. IIEM 2: EET). IIEM 3: ESTIMATE ANNUAL CONTAINES USED TO STORE THE TOR SOLID; "L" FOR LIQUID; "G" TOR ANY INGREDIENT IS EXTREMELY LIEM 10: ENTER THE CAS | >         |
| C C C C C C C C C C C C C C C C C C C   | METHYL ETHYL K   | KETONE  |  | 2  |  |   | HAZARDC  | HAZARDOUS CHEMICAL INGREDIENTS & CAS NUMBERS OF PERCENTAGE OF EACH  | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6   | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT   |           |
| (2)<br>HAXINUH<br>QUANTITY<br>ANY TINE  | (3)<br>TOTAL<br>YEARLY<br>QUANTITY   | (4)<br>STORAGE<br>TYPES                                       | (5)<br>HEALTH &<br>PHYSICAL<br>HAZARDS   | (6)<br>PHYS.<br>STATE  | (7)<br>HAZARD<br>CLASS                                 | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS  | Methyl E   | Ethyl Ketone  |   |   |           |
| 165 gal.  | 165 gal.   | 려   | ×     ×  | ا لا ا   | व  |   |  |   | H H H   |   |           |
| 3 5   | Heptane  |   |  |  |  |   | HAZARDOUS  | HAZARDOUS CHEMICAL INGREDIENTS & CAS NUMBERS OF PERCENTAGE OF EACH INGREDIENT   |   | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT   | :         |
| NAME<br>(2)<br>MAXIMEN<br>QUANTITY<br>ANY TIME  | (3)<br>TOTAL<br>YEARLY<br>QUANTITY   | (4)<br>STORAGE<br>TYPES                                       | (5)<br>HEALTH &<br>PHYSICAL<br>HAZARDS   | (6)<br>PHYS. H   | (7)<br>HAZARD<br>CLASS                                 | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS  | Heptane  | -   | 95 * 142  | 142-82-5  |           |
| 550 gal.  | 1600 gal.  | a   | 24 32  | ا الح  | 3.A  |   |  |   |   |   | ]         |
| FOR OFFICE USE ONLY;  | Y: 185P. 10  | -   | INSP. INT  | INT.   |  | CATE  |  | DATA ENTRY 10   | DATA ENTRY INIT   | T DATE  |           |

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CAS NUMBERS OF EACH INGREDIENT CAS NUMBERS OF EACH INGREDIENT CAS NUMBERS OF EACH INGREDIENT Proprietary Hollywood, CA 91605 2.5 HAZARDOUS CHEMICAL INGREDIENTS & HAZARDOUS CHEMICAL INGREDIENTS PERCENTAGE OF EACH HAZARDOUS CHEMICAL INGREDIENTS PERCENTAGE OF EACH Electrodynamics Division
BUILDING NAME, OUTDOOR AREA,
OR UNDERGROUND TANK NUMBERS Shipping/Receiving PERCENTAGE OF EACH Catalyst EXTREM-ELY HA-ZARDOUS (8) EXTREM-ELY HA-ZARDOUS EXTREM-ELY HA-ZARDOUS HAZARD HAZARD PHYS. HAZARD STATE CLASS M LOCATION OF HAZARDOUS MATERIALS: COMPLETE ALL ITEMS IN THIS BOX HEALTH & PHYS. H
PHYSICAL STATE C
HAZAROS PHYS. STORAGE HEALTH & P
TYPES PHYSICAL S
HAZAROS HEALTH & PHYSICAL SHAZARDS ×| | INSTAPAK 95W COMPONENT B (4) STORAGE H STORAGE TYPES BUSINESS NAME Allied-Signal 385 gal. (3) TOTAL YEARLY QUANTITY (3) TOTAL YEARLY QUANTITY TÖTÁL YEARLY QUANTITY S10 ROOM NAME OR NUMBER OR PRODUCT CHEMICAL CHEMICAL PRODUCT NAME CHEMICAL PRODUCT 110 gal. MAXIMUM QUANTITY ANY TIME A A MAXIMUM QUANTITY ANY TIME MAXIMUM QUANTITY ANY TINE (2)

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INSTRUCTIONS: READ ALL THE INSTRUCTIONS BELOW AND PHOTOCOPY EXTRA COPIES OF THIS FORM BEFORE COMPLETING IT. (REPORT HAZARDOUS WASTE ON PART C)

1. COMPLETE A SEPARATE FORM FOR EACH BUILDING, OUTDOOR AREA, ROOM OR UNDERGROUND TANK IN WHICH HAZARDOUS MATERIALS INVENTORY IS BEING AMENDED.

USE BOX BELOW TO SPECIFY THE LOCATION OF THE HAZARDOUS MATERIALS LISTED ON THIS FORM.

OCATION OF HAZARDOUS MATERIALS: COMPLETE ALL ITEMS IN THIS BOX.

JUSINESS NAME Allied-Signal Electrodynamics Division

NOOM NAME OR NUMBER

BUILDING NAME, OUTDOOR AREA, OR UNDERGROUND TANK NUMBERS. ADDRESS

11600 Sherman Way, N. Hollywood, CA

Flammable Storage Area

91605

COMPLETE ITEMS 1-10 FOR EACH HAZARDOUS MATERIAL TO BE AMENDED THAT IS STORED OR HANDLED AT THE LOCATION SPECIFIED ABOVE. INCLUDE RAW MATERIALS, FINISHED CHEMICAL PRODUCTS, CHEMICALS MANUFACTURED OR REPACKAGED, AND CHEMICALS DISTRIBUTED.

MAKE SURE YOU INDICATE WHETHER THE INFORMATION SHOULD BE ADDED, CHANGED OR DELETED FROM THE CURRENT DISCLOSURE THAT THE FIRE DEPARTMENT HAS ON FILE BY MAKKING THE APPROPRIATE CODE UNDER ITEM #1.

THE CODES IN ITEM 4, 5 and 7 CAN BE FOUND ON THE ATTACHED TABLE OF CODES.

| (1)                 |   |                         |   |              |    |                           | - 19 19 19 19 19 19 19 19 19 19 19 19 19                | · · · · · · · · · · · · · · · · · · ·     |
|---------------------|---|-------------------------|---|--------------|----|---------------------------|---|---|
| CHEMICAL OR PRODUCT | Norpar 13   |                         |   |              |    |                           | (9) MAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH | (10)<br>CAS NUMBERS OF<br>EACH INCREDIENT |
| NAME                | 167   |                         |   |              |    |                           |   | 100 • 64771-72-8                          |
| HAXIMUN<br>QUANTITY | TOTAL<br>YEARLY   | (4)<br>STORAGE<br>TYPES | (4) (5) (6) (7)<br>STORAGE HEALTH & PHYS. HAZAR<br>TYPES PHYSICAL STATE CLASS | (6)<br>PHYS. | -  | (8)<br>EXTREM-<br>ELY HA- |   |   |
|                     | COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COMMITTE<br>COM |                         | HAZARDS   |              |    | ZARDOUS                   |   | 14  |
| 110 gal.            | 165 gal.  | <b>\(\text{a}\)</b>     | ×   | 2            |    | •                         |   | ×   |
|                     | •   |                         | XX.   | ×            | 18 | i                         |   | ¥   |
|                     |   |                         | 4 100   |              |    |                           |   |   |
|                     |   |                         |   |              |    |                           |   | *   |
| (3)                 |   |                         |   |              |    |                           | · · · · · · · · · · · · · · · · · · ·                   |   |
| 14014040            | To.1  |                         |   |              |    |                           | (0)   | 1217                                      |

|            |              |                | <u> </u>                           |              |               |                |   |                                       |
|------------|--------------|----------------|------------------------------------|--------------|---------------|----------------|---|---------------------------------------|
|            |              |                |                                    |              |               |                |   |                                       |
| 3          |              |                |                                    |              |               |                | 如果在中央中的社会的名词复数形式在有效的现在分词 医阿拉拉氏性多种 医阿拉克氏性 医阿拉克氏征检查检查检查检查检查检查检查检查检查检查检查检查检查检查检查检查检查检查检查 | · · · · · · · · · · · · · · · · · · · |
| CHEMICAL   | Toluene      |                |                                    |              |               |                | HAZABBOAT INCHES SINGAZAN   | (01)                                  |
| PRODUCT    |              |                |                                    |              |               |                | PERCENTAGE OF EACH  | EACH INGREDIENT                       |
| NAME       |              |                |                                    |              |               |                | Toluene 100   | 108-88-                               |
| HAXINUM    | (3)<br>TOTAL | (4)<br>STORAGE | (5)<br>HEALTH &                    | (6)<br>PHYS. | (7)<br>HAZARD | (8)<br>EXTREM- |   |                                       |
| ANY TIME   | QUANTITY     | TYPES          | TYPES PHYSICAL STATE CLASS HAZARDS | STATE        |               | ELY HA-        |   |                                       |
|            |              | മ              | ×                                  |              |               |                |   |                                       |
| . 165 gal. | 440 gal.     |                | <br> <br>                          | ,  >         | 3.0           |                |   |                                       |
|            |              |                |                                    |              | 5             | 1              | <b>54</b>   |                                       |
|            |              |                | 5                                  | ا            |               |                |   |                                       |
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| DESCRIPTION OF NAZARIONS WASTER. CORPLETE ALL TITLES IN BOX   DESCRIPTION OF NAZARIONS WASTER. CORPLETE ALL TITLES IN BOX   DESCRIPTION OF NAZARIONS WASTER. CORPLETE ALL TITLES   DESCRIPTION OF NAZARIONS   DESCRIPTION OF NAZARIONS CHARLES   DESCRIPTION OF NAZARIONS CHARLES   DESCRIPTION OF NAZARIONS CHARLES   DESCRIPTION OF NAZARIONS CHARLES   DESCRIPTION OF NAZARIONS   | PART C AN DI                           | ONT FOR INZARDOUS WASTE            |                         | INVENTORY                   |                      |                        |                                      | C)  | PAGE OF                                   |
|--|--|------------------------------------|-------------------------|-----------------------------|----------------------|------------------------|--------------------------------------|---|---|
| 1   1   1   1   1   1   1   1   1   1  | LOCATION OF HAZAR                      |                                    |                         |                             | <b>B</b> 0X          |                        |                                      |   |   |
| 1  | BUSINESS NAME:                         |                                    |                         |                             |                      | 101110                 | 37,414                               | ADDRESS:  |   |
| (1)  (2)  (3)  (4)  (5)  (6)  (7)  (7)  (7)  (8)  (1)  (1)  (1)  (1)  (2)  (1)  (2)  (3)  (4)  (5)  (6)  (7)  (1)  (1)  (1)  (2)  (1)  (2)  (3)  (4)  (5)  (6)  (7)  (1)  (1)  (1)  (1)  (2)  (2)  (3)  (4)  (5)  (6)  (7)  (1)  (1)  (1)  (1)  (1)  (2)  (2)  (3)  (4)  (5)  (6)  (7)  (1)  (1)  (1)  (1)  (1)  (2)  (2)  (3)  (4)  (5)  (6)  (7)  (1)  (1)  (1)  (1)  (1)  (1)  (2)  (3)  (4)  (5)  (6)  (7)  (1)  (1)  (1)  (1)  (1)  (1)  (2)  (3)  (4)  (4)  (5)  (6)  (7)  (1)  (1)  (1)  (1)  (1)  (1)  (1  |  | <b>:</b>                           |                         |                             |                      | OR UND                 | RGROUND 1                            | JULIOUN AKEA,   |   |
| (2)  WASTE  WASTE  WASTE  WASTE  WASTE  WASTE  WASTE  ANY TIME  WASTE  W | 医化化性性性性性性性性性性性性性                       |                                    | ****                    | ****                        |                      | ***                    | ******                               |   | ***************************************   |
| (1)  (2)  (3)  (4)  (5)  (6)  (7)  (7)  (1)  (1)  (1)  (1)  (1)  (1  |  |                                    |                         |                             |                      |                        |                                      |   | (10)<br>CAS MUMBERS OF<br>EACH INGREDIENT |
| (1)  HAZARDOUS  WASTE   | MAXIM<br>QUANT<br>ANY T                | (3)<br>TOTAL<br>YEARLY<br>QUANTITY | STORAGE<br>TYPES        | (5)<br>TREAT &.<br>DISPOSAL | (6)<br>WASTE<br>CODE | (7)<br>HAZARO<br>CLASS | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS |   |   |
| (1) HAZARDOUS WASTE WAST |  |                                    |                         | l                           |                      |                        |                                      |   |   |
| (1)  HAZARDOUS  WASTE  NAHE  (2)  HAXIMH  (2)  HAXIMH  (3)  (4)  (5)  (6)  (7)  HAZARDO  CLASS  ANY TIME  QUANTITY  WASTE  WASTE  WASTE  WASTE  WASTE  WASTE  ANY TIME  QUANTITY  (6)  (7)  WASTE  WAS |  |                                    |                         |                             |                      |                        |                                      |   |   |
| HAZARDOUS  |  |                                    |                         |                             |                      |                        |                                      |   |   |
| (2)  HAXIMUH  QUANTITY  YEARLY  TYPES  OISPOSAL  GUANTITY  (1)  HAZARDOUS  WASTE  WASTE  WASTE  HAZARDOUS  WASTE  ANY TIME  QUANTITY  (2)  HAZARDOUS  WASTE  ANY TIME  QUANTITY  TYPES  (6)  (7)  HAZARDOUS  WASTE  WASTE  WASTE  WASTE  WASTE  CODE  CLASS  (6)  (7)  HAZARD  CLASS  (1)  WASTE  | (1) A HAZARDOUS C WASTE D NAME         |                                    |                         |                             |                      |                        |                                      | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH | (10)<br>CAS MUNBERS OF<br>EACH INGREDIENT |
| (1) HAZARDOUS WASTE WASTE WASTE WASTE OLUMITITY YEARLY TYPES DISPOSAL CODE CLASS   | (2)<br>MAXIMUM<br>QUANTITY<br>ANY TIME | (3)<br>TOTAL<br>YEARLY<br>QUANTITY | (4)<br>STORAGE<br>TYPES | (5)<br>TREAT &.<br>DISPOSAL | (6)<br>WASTE (00E)   |                        | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS |   |   |
| (1) HAZARDOUS WASTE WASTE (2) HAXIMUN TOTAL STORAGE TREAT &. (6) (7) WAXIMUN TOTAL STORAGE TREAT &. WASTE HAZARD QUANTITY ANY TIME QUANTITY ANY TIME   | •                                      |                                    |                         |                             |                      |                        |                                      |   | ,   |
| (1)  HAZARDOUS  WASTE  NAME  (2)  HAXIMUM  TOTAL  STORAGE TREAT 4. WASTE HAZARD  QUANTITY  ANY TIME  QUANTITY  TYPES  DISPOSAL  CODE  CLASS  |  |                                    |                         |                             | l                    |                        |                                      |   |   |
| (3) (4) (5) (6) (7) (8)  TOTAL STORAGE TREAT 4. WASTE HAZARD EXTREM- YEARLY TYPES DISPOSAL CODE CLASS ELY HA- QUANTITY ———————————————————————————————————   | A HAZARDOUS C WASTE D NAME             |                                    |                         |                             |                      |                        |                                      | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH | CAS NUMBERS OF<br>EACH INGREDIENT         |
|  | (2)<br>HAXIMUN<br>QUANTITY<br>ANY TIME | (3)<br>TOTAL<br>YEARLY<br>QUANTITY | (4)<br>STORAGE<br>TYPES | (5)<br>TREAT &.<br>DISPOSAL | (6)<br>WASTE<br>CODE |                        | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS |   |   |
| *  |  |                                    |                         |                             |                      |                        |                                      |   |   |
|  |  |                                    |                         |                             |                      |                        |                                      | 7   |   |

| PAKI C 1 OR  | WHENT FOR HAZARDOUS WASTE INVENTORY  | S WASTE IN   | WENTORY  |   |                                 | ζ.,   | C  | O26645-001-6  | 9.   | <b>0</b>   |
|--|--|--|--|---|---------------------------------|---|--|---|--|--|
| INSTRUCTIONS: READ ALL THE INSTRUCTIONS BELOW AND PHOTOCOPY EXTR<br>1. COMPLETE A <u>SEPARATE FORM</u> FOR EACH BUILDING, OUTDOOR A<br>BOX BELOW TO SPECIFY THE LOCATION OF THE HAZARDOUS WA   | AD ALL THE INSTR<br>ETE A <u>SEPARATE</u> F<br>ELOW TO SPECIFY   | CORM FOR ETHE LOCAT  | ELOW AND P<br>ACH BUILDI<br>TON OF THE                                 | HOTOCOPY<br>NG, OUTI<br>HAZARD              | C EXTRA<br>DOOR ARE<br>DUS WASI | COPIES O  | TES OF THIS FORM BEFUNDERGROUND TANK OR LISTED ON THIS FORM.   | A COPIES OF THIS FORM BEFORE COMPLETING IT.<br>REA, UNDERGROUND TANK OR ROOM WHERE HAZARDOUS WASTES INVENTORY IS BEING AHENDED<br>STES LISTED ON THIS FORM.   | INVENTORY IS BEING A   | 1 .  |
| LOCATION OF HAZARDOUS WASTE:   |  | MPLETE AL  | COMPLETE ALL ITEMS IN THIS BOX   | THIS BC                                     | ×.                              |   |  |   |  |  |
| BUSINESS NAME:   | ied-S  | - 1  | Electrodynamics  |   | Sion                            | Division<br>Building NAME.  | ADDRESS:   | 11600 Sherman Way.  | N. Hollywood, CA 9   | 91605  |
| 0 I  | SER: WI  |  |  |   | OR UND                          | ERGROUND  | TANK NUMBERS   | Waste Oil (Recyclable)  | e) Storage Tank  |  |
|  | COMPLETE ITEMS 1-10 FOR EACH ADDITION, CHANGE OR DELE:<br>MAKE SURE YOU INDICATE WHETHER THE INFORMATION SHOULD<br>FILE BY MARKING THE APPROPRIATE CONF LINDER ITEM #1 | OR EACH A  | ADDITION, CI   | CHANGE OF REMATION STIEM                    | HOULD B                         | ON OF HA  | OR DELETION OF HAZARDOUS WASTE GENERATED, A SHOULD BE ADDED, CHANGED OR DELETED FROM                 | ENERATED, STORED OR HANDEL<br>ETED FROM THE CURRENT DISC  | STORED OR HANDELED AT THE LOCATION SPECIFIED ABOVE. THE CURRENT DISCLOSURE THAT THE FIRE DEPARTMENT HAS  | STETED ABOVE.  |
| 3. USE TH<br>4. RETURN   | USE THE CODES ON THE ATTACHED TABLE TO FILL IN ITEMS ARETURN COMPLETED WASTE INVENTORY AMENDMENT TO THE EIRI   | ATTACHED<br>E INVENTO  | TABLE TO F   | ILL IN I                                    | TENS 4.                         | 4. 5 AND 7.<br>E DEPARIMENT   | . FOR ITEM 6, I  | FOR ITEM 6, USE TABLE III ON THE BACK OF YOUR UNIFORM HAZARDOUS WASTE MANIFE.<br>ALONG WITH PART A AND PART B.  | IF YOUR UNIFORM HAZARDO  | NUS WASTE MANIFE:  |
| ADDITIONAL INSTRUCTIONS: ITEM 1: CHECK APPROPRIATE CODE: "A" INDITHE INFORMATION THAT WAS REPORTED FOR THAT WASTE, "O" INDICATES A QUANTITY HANDELED OR STORED AT ANY ONE TIME AT THE ABOVE LOCATION HANDELED OR STORED AT THE ABOVE LOCATION; INCLUDE UNITS (POUNDS, TABLE 1). ILEM 5: USE ALL TREATMENT AND DISPOSAL METHODS THAT APPANIFEST (TABLE III ON THE BACK OF THE MANIFEST. | CTIONS: ITEM 1: HAT WAS REPORTE: OR STORED AT A D AT THE ABOVE I. USE ALL TREAT! IT ON THE BACK  | CHECK API<br>D FOR THAI<br>NY ONE TIP<br>LOCATION:<br>HENT AND E | PROPRIATE (<br>T WASTE, "(<br>ME AT THE /<br>INCLUDE UN<br>DISPOSAL ME | CODE: "A<br>NBOVE LO<br>NITS (PO<br>THOUS T | ATES A CATION; CATION; GHAT APP | A WASTE THAT HAS A WASTE THAT HAS WE INCLUDE UNITS GALLONS, CUBIC PROPERTY (UBE TABLE A | WASTE THAT IS BEI<br>HAT HAS BEEN DELE<br>DE UNITS (POUNDS,<br>CUBIC FEET). IT                       | ES A WASTE THAT IS BEING ADDED TO YOUR EXISTING INVENTORY, "C" INDICATES A CHANGE IN STE THAT HAS BEEN DELETED. ENTER THE HAZARDOUS WASTE NAME. <u>IIEM 2:</u> ENTER THE MAXIMUM CLUDE UNITS (POUNDS, GALLONS, CUBIC FEET). <u>IIEM 3:</u> ENTER TOTAL YEARLY QUANTITY ONS, CUBIC FEET). <u>IIEM 4:</u> LIST ALL TYPES OF CONTAINERS USED TO STORE THE WASTE (USE CUSE TABLE 4). <u>IIEM 6:</u> ENTER THE HAZARDOUS WASTE CODE USED ON YOUR HAZARDOUS WASTE | INVENTORY, "C" INDICATES ASTE NAME. ITEM 2; ENTE H 3; ENTER TOTAL YEARLY MITAINERS USED TO STORE TI      | ES A CHANGE IN<br>ITER THE MAXIMUM<br>Y QUANTITY<br>THE WASTE (USE<br>AZARDOUS VASTE |
| THE WASTE OR ANY PERCENTAGE OF COM   | INGREDIENT IS E)<br>CENTRATION, IT   | KTREMELY !   | WZARDOUS<br>TER THE CA   | SEE ATT                                     | ACHED L                         | LIST OF ENERGY SERVICES   | MAZAKU CLASS HAT APPLIES TO TH<br>EXTREMELY HAZARDOUS SUBSTANCES)<br>ERVICE) MAMBER FOR EACH HAZARDO | FAZARU CLASS THAT APPLIES TO THE WASTE (USE<br>EXTREMELY HAZARDOUS SUBSTANCES). <u>ITEM 9:</u> EN<br>SERVICE) MUMBER FOR EACH HAZARDOUS INGREDIENT  | (USE TABLE 3). IIEM 8; CHECK THIS BOX IF<br>9: ENTER HAZARDOUS INGREDIENTS AND<br>DIENT (USE YOUR MSDS), | ENTS AND   |
| A HAZARDOUS C WASTE D WANE   | PETROLEUM 0)<br>UN 1270  | 01L N.O.S.   | . COMBUSTIBLE  | TIBLE                                       | LIQUID                          |   | HAZARDOUS  | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH   |  | (10)<br>CAS MUMBERS OF<br>EACH INGREDIENT  |
| (2)<br>HAXIMUH<br>QUANTITY<br>ANY TIME   | (3)<br>TOTAL<br>YEARLY<br>QUANTITY   | STORAGE<br>TYPES   | (5)<br>TREAT &.<br>DISPOSAL  | (6) (7) WASTE HAZARD CODE CLASS             | (7)<br>WZARD                    | (8)<br>EXTREM-<br>ELY HA-   | Water Soluble<br>Lubricating O   | ole 0il   | 2 2  |  |
| 1500 gal.  | 7300 gal.  | a  | 02   | 221   | 18                              |   | Hydraulic O<br>Water   | 1 .— 1  | 60 k   |  |
|  |  |  |  |   |                                 |   |  |   | 4 24   |  |
| A HAZARDOUS C WASTE D MANE   |  |  |  |   |                                 |   | HAZARDOUS  | HAZARDOUS CHEMICAL INGREDIENTS & CAS MUMBERS OF PERCENTAGE OF EACH INGREDIENT   | 2  | (10)<br>CAS MUMBERS OF<br>EACH INGREDIENT  |
| (2)<br>MAXIMUH<br>QUANTITY<br>ANY TIME   | (3)<br>101AL<br>YEARLY<br>QUANTITY   | (4)<br>STORAGE<br>TYPES  | (5)<br>TREAT &.<br>DISPOSAL  | (6)<br>WASTE H<br>COOE                      | (7)<br>HAZARD<br>CLASS          | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS  |  |   | H H H  |  |
|  | ·%   |  |  |   |                                 |   | ·  |   | 34 34 1  |  |
| FOR OFFICE USE ONLY:   | Y: INSP. 1D  |  | INSP   | INSP. INIT                                  |                                 | DATE  |  | DATA ENTRY 10 DAT   | DATA ENTRY INIT D  | DATE   |

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6

| [LOCATION OF HAZARDOUS WASTE:         |                                       | COMPLETE ALL ITEMS IN BOX                | ITEMS IN                                       | XQ6              |                   |                    |  |   |
|---------------------------------------|---------------------------------------|--|--|------------------|-------------------|--------------------|--|---|
| BUSINESS NAME: AT                     | Allied-Signal                         |  | Electrodynamics                                | Division         | ion               |                    | : 11600 Sherman Way, N. Hollywood,                       | CA 91605  |
| ROOM NAME OR NUMBER:                  | ER: W2                                |  |  |                  | BUILDIN           | HG NAME, CERGROUND | ON UNDERGROUND TANK NUMBERS HAZARDOUS WASTE Storage Area |   |
| · · · · · · · · · · · · · · · · · · · | ***********                           | *********                                | *******  | ****             |                   | ****               |  |   |
| A HAZARDOUS C WASTE                   | WASTE<br>KEROSENE CC                  | COMBUSTIBLE LIQUID UN                    | E LIQUID                                       | UN 1223          | 23                |                    | (9) HAZARDOUS CHEMICAL IMGREDIENTS & PERCENTAGE OF EACH  | (10)<br>CAS MUMBERS OF<br>EACH INGREDIENT   |
|                                       |                                       |  |  |                  |                   |                    | 34   |   |
| (2)<br>PIAX I PLIPI                   | (3)<br>TOTAL                          | (4)<br>STORAGE                           | (5)<br>TREAT &.                                | (6)<br>WASTE     | (7)<br>HAZARD     | (8)<br>Extrem      | Petroleum oil & grease 70-100%                           |   |
| QUANTITY<br>ANY TIME                  | YEARLY<br>QUANTITY                    | TYPES                                    | DISPOSAL                                       | 3000             | CLASS             | ELY HA-            | Water, Dirt, Solids 0-30 x                               |   |
| 150 gal.                              | 250 gal.                              | <u>в</u>                                 | 02   |                  |                   |                    | Napthenes/Paraffins 0-40 ≰                               |   |
|                                       | )                                     |  |  | 221              | 3A                | į                  |  |   |
|                                       |                                       |  |  |                  |                   |                    |  |   |
|                                       |                                       |  |  |                  |                   | *******            |  |   |
| A HAZARDOUS C WASTE D MANE            | WASTE FLAM<br>LIQUID UN<br>EPA# FOO3, | FLAMMABLE LI<br>UN 1993 (PA<br>003, F005 | LIQUID N.O.                                    | N.O.S. FLA       | FLAMMABLE<br>(RS) | ш                  | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH  | (10)<br>CAS MUMBERS OF<br>EACH INGREDIENT   |
| (2)<br>NAXIMUM                        | (3)<br>TOTAL                          | (4)<br>STORAGE                           | (5)<br>TREAT &.                                | (6)<br>WASTE     | (7)<br>HAZARD     | (8)<br>Extrem      | Specified spent non-halogenated x                        |   |
| ANY TIME                              | YEARLY<br>QUANTITY                    | TYPES                                    | DISPOSAL                                       | 3000<br>000      | CLASS             | ELY HA-            | solvents and still bottoms from                          |   |
| . 110 gal.                            | 360 gal.                              | 8  | 05   |                  |                   |                    | recovery   |   |
|                                       |                                       | 1  |  | 461              | 34                | -                  | **************************************                   |   |
|                                       |                                       | -  |  |                  |                   |                    | ***************************************                  |   |
| *************                         | *************                         | ******                                   | *****  | ******           | ****              | ****               | · 在我是我中国中国的自己的自己的自己的自己的自己的自己的自己的自己的自己的自己的自己的自己的自己的       | 化化物物 化多分类 化多位性 医多位性 化二氯化物 化物物 化二氯化物 化二氯化物 化二氯化物 化二氯化物 化二氯化物 化二氯化物 化二氯化物 化二氯化物 化二氯化物 化二氯化物 化物物 化二氯化物 化物物 化物物 化物物 化物物 化物物 化物物 化物物 化物物 化物物物 化物物物 化物物 化物物物 化物物物物 化物物物 化物物物 化物物物 化物物物物 化物物物物物物 |
| A HAZARDOUS C WASTE NAME              | WASTE FLAM<br>LIQUID UN<br>EPA# DOO1  | MABLE<br>1993                            | LIQUID N.O.S. FLAMMABLE<br>(RED OIL & HEPTANE) | .S. FL<br>HEPTAN | AMMABL<br>E)      | пi                 | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH  | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT   |
| (2)<br>MAXIMUM<br>GLANTITY            | (3)<br>101AL                          | (4)<br>STORAGE                           | (5)<br>TREAT &.                                | (6)<br>WASTE     | (7)<br>HAZARD     | (8)<br>EXTREM      | Red hydraulic oil 80=90%                                 |   |
| ANY TIME                              | QUANTITY                              | 5  | UI SPUSAL                                      | 3                | \$\$ <b>\</b>     | ZARDOUS            | 142  | -22-5   |
| 100 gal.                              | 305 gal.                              | ఠ  | 20   |                  |                   |                    | Water, Dirt, Solids 0-10 €                               |   |
|                                       |                                       |  |  | 214              | 3A_               |                    | H  |   |
|                                       |                                       |  |  |                  |                   |                    | <b>54</b>  |   |
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| PANI C PROP   | HENT FOR HAZARDOUS WASTE INVENTORY  | WASTE IM  | ENTORY  |   |                                 | Ć.   |   | LAFD # 026645-001   | 01-6   |  | 0 <b>F</b>  |
|---|---|---|---|---|---------------------------------|--|---|---|--|--|---|
| INSTRUCTIONS: READ ALL THE INSTRUCTIONS BELOW AND PHOTOCOPY EXTRA COP<br>1. COMPLETE A <u>SEPARATE FORM</u> FOR EACH BUILDING, OUTDOOR AREA,<br>BOX BELOW TO SPECIFY THE LOCATION OF THE HAZARDOUS WASTES   | O ALL THE INSTRI<br>TE A <u>SEPARATE F</u> C<br>LOW TO SPECIFY I  | UCTIONS BE<br>DRM FOR EA<br>THE LOCATI          | CH BUILDIN  | OTOCOPY<br>16, OUTD<br>HAZARDO                      | EXTRA<br>OOR ARE<br>US WAST     | COPIES OF THIS<br>A, UNDERGROUND<br>ES LISTED ON TH  | THIS FORM BEFORE ROUND TANK OR ROOM ON THIS FORM.             | COMPLETING IT.  | TES INVENTOR   | WASTES INVENTORY IS BEING AMENDED.   | USE THE   |
| LOCATION OF HAZARDOUS WASTE:  | DOUS WASTE: COP   | HPLETE ALL                                      | COMPLETE ALL ITEMS IN THIS BOX  | THIS BO   | ×                               |  |   |   |  |  |   |
| BUSINESS NAME: A  | Allied-Signal   | Electro   | Electrodynamics   | Division  | ion                             | JAKA S   | ADDRESS:  | 11600 Sherman Way,  | N. Hollywood,  | wood, CA 91605   |   |
| ROOM NAME OR NUMBER:  | ER: 1/2   |   |   |   | OR UND                          | UNDERGROUND .  | TANK NUMBERS  | Hazardous Waste St  | Storage Area   | 9  |   |
| 2. COMPLE SI MAKE SI FILE B FILE B 3. USE THI   | COMPLETE ITEMS 1-10 FOR EACH ADDITION, CHANGE OR DELEMAKE SURE YOU INDICATE WHETHER THE INFORMATION SHOULD FILE BY MARKING THE APPROPRIATE CODE UNDER ITEM #1. USE THE CODES ON THE ATTACHED TABLE TO FILL IN ITEMS ARETURN COMPLETED WASTE INVENTORY AMENDMENT TO THE FIRE | DR EACH AD WHETHER PROPRIATE ATTACHED T         | EACH ADDITION, CH<br>HETHER THE INFORM<br>OPRIATE CODE UNDE<br>ACHED TABLE TO FI<br>NVENTORY AMENDMEN | ANGE OR<br>ATION S<br>R ITEM<br>LL IN I             | DELETION HOULD BE #1. TEMS 4, 5 | TION OF HAZAL<br>BE ADDED, CI<br>4, 5 AND 7.   |   |   | SCLOSURE THE   | STORED OR HANDELED AT THE LOCATION SPECIFIED ABOVE. THE CURRENT DISCLOSURE THAT THE FIRE DEPARTMENT HAS III ON THE BACK OF YOUR UNIFORM HAZARDOUS WASTE MAN  | ABOVE.<br>INT HAS ON  |
| ADDITIONAL INSTRUCTIONS: ITEM 1; CHECK APPROPRIATE CODE: "A" INDICATES THE INFORMATION THAT WAS REPORTED FOR THAT WASTE, "O" INDICATES A WASTE QUANTITY HANDELED OR STORED AT ANY ONE TIME AT THE ABOVE LOCATION; INCLUDE UNITS (POUNDS, GALLOR TABLE 1). ITEM 5; USE ALL TREATMENT AND DISPOSAL METHODS THAT APPLY (IN MANIET ). | HAT WAS REPORTED OR STORED AT AN ON AT THE ABOVE L  | CHECK APP<br>FOR THAT<br>IY ONE TIM<br>OCATION; | ROPRIATE C<br>WASTE, "D<br>E AT THE AI<br>INCLUDE UN  | ODE: "A<br>INDIC<br>BOVE LO<br>ITS (POI<br>THODS TO | INDICATES A V                   | ICATES A WASTE TI<br>A WASTE THAT HAS<br>N; INCLUDE UNITS<br>GALLONS, CUBIC<br>PPLY (USE TABLE |   | ES A WASTE THAT IS BEING ADDED TO YOUR EXISTING INVENTORY, "C" INDICATES A CHAN<br>STE THAT HAS BEEN DELETED. ENTER THE HAZARDOUS WASTE NAME. IIEM 2: ENTER THE P<br>NCLUDE UNITS (POUNDS, GALLONS, CUBIC FEET). IIEM 3: ENTER TOTAL YEARLY QUANTIT<br>LONS, CUBIC FEET). IIEM 4: LIST ALL TYPES OF CONTAINERS USED TO STORE THE WAST | INVENTORY  VASTE NAME  LIEM 3: ENTE  CONTAINERS  ASTE CODE U | REXISTING INVENTORY, "C" INDICATES A CHANGE IN HAZARDOUS WASTE NAME. ITEM 2: ENTER THE MAXIMUM FEET). ITEM 3: ENTER TOTAL YEARLY QUANTITY TYPES OF CONTAINERS USED TO STORE THE WASTE (USE ZARDOUS WASTE CODE USED ON YOUR HAZARDOUS WASTE | CHANGE IN<br>HE MAXINUM<br>NTITY<br>WASTE (USE<br>OUS WASTE |
| THE WASTE OR ANY PERCENTAGE OF COM  | INGREDIENT IS EX<br>CENTRATION, ITE   | TREMELY H                                       | AZARDOUS (CER THE CAS   | SEE ATT   | ACHED LI                        | 뿌烍ᆜᄚ   | ZARO CLASS THAT AF<br>FREMELY HAZARDOUS<br>ZICE) NUMBER FOR E | HAZARO CLASS THAT APPLIES TO THE WASTE (USE TABLE 3). <u>ITEM 8:</u> CHECK THIS BOX IF<br>EXTREMELY HAZARDOUS SUBSTANCES). <u>ITEM 9:</u> ENTER HAZARDOUS INGREDIENTS AND<br><u>SERVICE) NUMBER FOR EACH HAZARDOUS INGREDIENT (USE YOUR MSDS).</u>  | ISE TABLE 3)<br>ENTER HAZA<br>ENT (USE YO                    | SE TABLE 3). <u>ITEM 8:</u> CHECK THIS<br>ENTER HAZARDOUS INGREDIENTS AND<br>ENT (USE YOUR MSDS).  | IIS BOX IF  |
| (1) A HAZARDOUS H C WASTE NAME NAME   | MAZARDOUS HAZARDOUS WASTE<br>WASTE NA 9189 (FREON)  | TE LIQUI  | LIQUID N.O.S.<br>EPA# FOO1  | ORM-E   | lui                             | • 5  | HAZARDOUS CHEMICAL<br>PERCENTAGE                              | (9)<br>US CHEMICAL INGREDIENTS &<br>PERCENTAGE OF EACH  |  | (10)<br>CAS MURBERS<br>EACH INGREDI  | (10)<br>CAS MUMBERS OF<br>EACH INGREDIENT                   |
| (2)<br>HAXIHUH<br>QUANTITY<br>ANY TIME  | (3)<br>TOTAL<br>YEARLY<br>OUANTITY  | (4)<br>STORAGE<br>TYPES                         | (5)<br>TREAT 4.<br>DISPOSAL   | (6)<br>WASTE (000                                   | (7)<br>HAZARD<br>CLASS          | (8)<br>EXTREM-<br>ELY HA-  | Specified sper  | spent halogenated   | <b>H H</b>   |  |   |
| 50 gal.   | 100 gal.  | B   | 05  |   |                                 | CANEGOOS   | ا نـ  | ) i   | 4  |  |   |
|   |   |   |   | 122   | 4                               |  | Irichlorotrifloroethane                                       | rifloroethane<br>& Water  | 10-30 x  | 76-13-1 & 75-69-   | 1-4   |
|   |   | **********                                      |   |   |                                 |  | John Trich  | **************************************  | le:  | 71-55-6  |   |
| C WASTE NAME  | WASTE 1,1,1<br>EPA# F001  | TRICHLOF  | TRICHLOROETHANE   | ORM-A UN28  | UN2831                          | g-m-d  | (9) HAZARDOUS CHEMICAL PERCENTAGE                             | (9)<br>US CHEMICAL INGREDIENTS &<br>PERCENTAGE OF EACH  |  | CAS NUMBE<br>EACH INGR   | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT                   |
| (2)<br>MAXIMUM<br>QUANTITY<br>ANY TIME  | (3)<br>TOTAL<br>YEARLY  | (4)<br>STORAGE<br>TYPES                         | (5)<br>TREAT 4.<br>DISPOSAL   | (6) (7) WASTE HAZARD COOE CLASS                     | (7)<br>MZARD<br>LASS            | (8)<br>EXTREM-<br>ELY HA-  | Specified sp  | . halogenate  | * * :  |  |   |
| 300 gal.  | ; 775 gal.  | 8 0   | 29  | 211   | -<br>ਬ                          |  | sludges from  | s from recovery Irichloroethane   | PE PE PE   | 71-55-6  |   |
|   |   |   |   | ij  |                                 |  |   |   | **   |  |   |
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LAFD # 026645-001-6

PACTO OF

| LOCATION OF HAZARDOUS WASTE:   | 1  | PLETE ALL               | COMPLETE ALL ITEMS IN BOX   | 30X                                 |  |   |  |   |
|--|--|-------------------------|-----------------------------|-------------------------------------|--|---|--|---|
| BUSINESS NAME: Allied-Signal   |  | Electroc                | Electrodynamics             | Division                            |  | 11600   | Sherman Way, N. Hollywood, CA  | 91605                                     |
| ROOM NAME OR NUMBER:   | ER: W2                                   |                         |                             | BUILDI<br>OR UND                    | LDING NAME,<br>UNDERGROUND             | NG NAME, OUTDOOR AREA. HAZARDOUS W                      | Waste Storage Area   |   |
| (1)  HAZARDOUS RQ HAZARDOUS WASTE LIQUID, N.O.S.  WASTE ORM-E (ALODINE) NA 9189 EPA# DOO1, DOC  NAME | RQ HAZARDOUS WASTE<br>ORM-E (ALODINE) NA | S WASTE<br>INE) NA      | LIQUID,<br>9189 EPA         | LIQUID, N.O.S.<br>9189 EPA# DO01, 1 | D007                                   | (9)  HAZARDOUS CHEMICAL INGREDIENTS  PERCENTAGE OF EACH | (10)  (9)  (10)  (10)  (ASARDOUS CHEMICAL INGREDIENTS & CAS MUPBERS OF EACH INGREDIENT  (10)  (10)  (10)  (10)  (10)  (10)  (10)  (10) | (10)<br>CAS MURBERS OF<br>EACH INGREDIENT |
| (2)<br>MAXIMUM<br>QUANTITY<br>ANY TINE   | (3)<br>TOTAL<br>YEARLY<br>QUANTITY       | (4)<br>STORAGE<br>TYPES | (5)<br>TREAT &.<br>DISPOSAL | (6) (7) WASTE HAZARD CODE CLASS     | (8)<br>S ELY HA-<br>ZARDOUS            | Flouride<br>Nitrate                                     | <pre>&lt; .01x</pre>   |   |
| 150 gal.   | 150 gal.                                 | ca                      | 02                          | 135 10                              | 1                                      | Sulfate<br>Sludge                                       |  |   |
|  | ***********                              |                         |                             |                                     |  | Maler   | Maler  |   |
| (1) A HAZARDOUS C WASTE D MAME   |  |                         |                             |                                     |  | (9) HAZARDOUS CHEMICAL INGREDIENTS PERCENTAGE OF EACH   | EDIENTS & CH   | (10)<br>CAS MUMBERS OF<br>EACH INGREDIENT |
| (2)<br>MAXIMUM<br>QUANTITY<br>ANY TIME   | (3)<br>TOTAL<br>YEARLY<br>QUANTITY       | (4)<br>STORAGE<br>TYPES | (5)<br>TREAT &.<br>DISPOSAL | (6) (7) WASTE HAZARD CODE CLASS     | (8)<br>EXTREM-<br>S ELY HA-<br>ZARDOUS |   |  |   |
|  |  |                         |                             |                                     |  |   | N4 N4 N4   |   |
| (1) A HAZARDOUS C WASTE D MAHE   |  |                         |                             |                                     |  | (9) HAZARDOUS CHENICAL INGREDIENTS PERCENTAGE OF EACH   | HAZARDOUS CHEMICAL INGREDIENTS & CAS NUMBERS OF PERCENTAGE OF EACH   | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT |
| (2)<br>MAXIMUN<br>QUANTITY<br>ANY TIME   | (3)<br>TOTAL<br>YEARLY<br>QUANTITY       | (4)<br>STORAGE<br>TYPES | (5)<br>TREAT &.<br>DISPOSAL | (6) (7) WASTE HAZARD CODE CLASS     | (8)<br>EXTREM-<br>S ELY HA-<br>ZARDOUS |   |  |   |

DATE

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| BUNC C COM   | CONTROL FOR HAZARDOUS WASTE INVENTORY  | S WASTE II  | WENTORY   |  |                        | <b>ل</b> ون                                      | EA.  | # 026645-001-6  | <u>ن</u>  |
|--|--|---|---|--|------------------------|--|--|---|---|
| INSTRUCTIONS: RE  1. COMPL  BOX B  | VS: READ ALL THE INSTRUCTIONS BELOW AND PHOTOCOPY EXTECMENTEE A SEPARATE FORM FOR EACH BUILDING, OUTDOOR BOX BELOW TO SPECIFY THE LOCATION OF THE HAZARDOUS WAS A SECOPE OF THE LOCATION OF THE MAZARDOUS OF THE M | RUCTIONS I<br>FORM FOR I<br>THE LOCAL             | BELOW AND PHOTOCOPY EXT<br>EACH BUILDING, OUTDOOR<br>ITION OF THE HAZARDOUS W | PHOTOCOP<br>ING, OUT<br>E HAZARD                                   | A A S                  | IRA COPIES O<br>AREA, UNDER<br>ASTES LISTEI      | COPIES OF THIS FORM BEFORE COMPLETING IT.<br>EA, UNDERGROUND TANK OR ROOM WHERE HAZARDOUS<br>FES LISTED ON THIS FORM.  | IT.   | WASTES INVENTORY IS BEING AMENDED. USE THE  |
| LOCATION OF HAZARDOUS WASTE:   |  | OMPLETE AL  | COMPLETE ALL ITEMS IN THIS BOX  | V THIS B   | 0X.                    |  |  |   |   |
| BUSINESS NAME:   | Allied-Signal Electrodynamics  | l Electo  | rodynami  | cs Div   | ision                  |  | : 11600  | Sherman Way. N. Hollywood.  | wood, CA 91605  |
| ROOM NAME OR NUMBER:   | BER: W2  | 5.7   |   |  | BUILDI<br>OR UNC       | NG NAME,   | BUILDING NAME, OUTDOOR AREA, OR UNDERGROUND TANK NUMBERS Hazardous   | ous Waste Storage Area  | а   |
| 2. COMPLI<br>MAKE S<br>FILE E  | ETE ITEMS 1-10 F<br>SURE YOU INDICAT<br>IY MARKING THE A   | FOR EACH A  | DDITION, C  | HANGE OF   | SHOULD B               | ON OF HA.  | ARDOUS WASTE GENERATED, HANGED OR DELETED FROM   | STORED OR HANDELED AT THI<br>THE CURRENT DISCLOSURE TO  | COMPLETE ITEMS 1-10 FOR EACH ADDITION, CHANGE OR DELETION OF HAZARDOUS WASTE GENERATED, STORED OR HANDELED AT THE LOCATION SPECIFIED ABOVE. THE STORE SURE YOU INDICATE WHETHER THE INFORMATION SHOULD BE ADDED, CHANGED OR DELETED FROM THE CURRENT DISCLOSURE THAT THE FIRE DEPARTMENT HAS ON   |
| 3. USE TH  | HE CODES ON THE COMPLETED WAST   | ATTACHED  | TABLE TO FIRM   | TILL IN  | ITEHS 4,               | IN ITEMS 4, S AND 7.                             | FOR ITEM 6, USE TABLE III ON LALONG WITH PART A AND PART B   | III ON THE BACK OF YOUR I   | III ON THE BACK OF YOUR UNIFORM HAZARDOUS WASTE MANIFE.<br>PART B.  |
| ADDITIONAL INSTRI<br>THE INFORMATION I<br>QUANTITY HANDELED  | CTIONS: ITEM 1:<br>THAT WAS REPORTED<br>OR STORED AT AL  | CHECK AP<br>D FOR THA<br>MY ONE TIL               | PROPRIATE<br>T WASTE, "   | CODE: "{<br>D" INDIC<br>ABOVE LC                                   | ATES A                 | ATES A WAWASTE THA                               | STE THAT IS BEING ADDED HAS BEEN DELETED. ENTINITY (POINDS CALLONS   | TO YOUR EXISTING INVENTOR ER THE HAZARDOUS WASTE NAP  | Y, "C" INDICATES A CHANGE IN  |
| TABLE 1). ITEM FAMILES OF CONFESSION OF CONF | ED AT THE ABOVE  E. USE ALL TREAT  II ON THE BACK  INGREDIENT IS E)  CENTRATION. ITS   | LOCATION:<br>HENT AND<br>OF THE MAI<br>XTREHELY I | INCLUDE U<br>DISPOSAL H<br>NIFEST).<br>HAZARDOUS<br>TER THE CA:               | NITS (METHODS 1<br>LIEM Z:<br>(SEE ATT                             | CAL ABS                | ALLONS, (<br>LY (USE 1<br>HE ONE HA<br>IST OF EX | TABLE 1). IIEM SI THE ABOVE LOCATION; INCLUDE UNITS (POUNDS, GALLONS, CUBIC FEET). IIEM 4: LIST ALL TYPE MANIFEST (TABLE 1). IIEM 5: USE ALL TREATHENT AND DISPOSAL HETHODS THAT APPLY (USE TABLE 4). IIEM 6: ENTER THE HAZARD HAZARD LIST ON THE BACK OF THE MANIFEST). IIEM 7: ENTER THE ONE HAZARD CLASS THAT APPLIES TO THE WASTEOR ANY INGREDIENT IS EXTREMELY HAZARDOUS (SEE ATTACHED LIST OF EXTREMELY HAZARDOUS SUBSTANCES). III | ST ALL TYPES OF CONTAINERS THE HAZARDOUS WASTE CODE TO THE WASTE (USE TABLE 3 ANCES). ITEM 9: ENTER MAZ | GALLONS, CUBIC FEET). ITEM 4: LIST ALL TYPES OF CONTAINERS USED TO STORE THE WASTE (USE PLY (USE TABLE 4). ITEM 6: ENTER THE HAZARDOUS WASTE CODE USED ON YOUR HAZARDOUS WASTE THE ONE HAZARD CLASS THAT APPLIES TO THE WASTE (USE TABLE 3). ITEM 8: CHECK THIS BOX IF LIST OF EXTREMELY HAZARDOUS SUBSTANCES). ITEM 9: ENTER HAZARDOUS INGREDIENTS AND |
| (1)  |  | ***   | *****   |  |                        |  | AAEL MANOEN TUK EALH PA  | ACARDOUS INGREDIENT (USE Y  | INGREDIENT (USE YOUR HSDS).   |
| C WASTE<br>D WAFE  | RQ Waste Corrosive Corrosive Material  | rrosive<br>aterial                                | الله الآر   | ٠<br>د   | •                      | - 4  | HAZARDOUS CHEMIC<br>PERCENTAG  | 1-4   | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT   |
| (2)<br>HAXIFUM<br>QUANTITY<br>ANY TINE   | (3)<br>TOTAL<br>YEARLY<br>QUANTITY   |   | (5)<br>TREAT &<br>DISPOSAL  | (%)<br>(%)<br>(%)<br>(%)<br>(%)<br>(%)<br>(%)<br>(%)<br>(%)<br>(%) | (7)<br>HAZARD<br>CLASS | CATREMENTELY HA-                                 | 007, D008  Hydrochloric Acid Oil (virgin)  | 20  | 0-10-1496   |
| 55 gal.  | 55 gal,  | ш   | 63  | N/A  | 2A                     |  | Water  | Balance #   |   |
|  |  |   |   | 1  |                        |  |  | * *   |   |
| =  |  |   |   |  |                        | **********                                       | ****************   | - 经销售的现在分词 医电影电影 医电影 医电影 医电影 医电影  | 在 10 10 10 10 10 10 10 10 10 10 10 10 10  |
| C WASTE NAME   | Soil and Oil<br>(Motor Oil C   | .l NON-RCRA Ha<br>Contaminated                    | and Oil NON-RCRA Hazardous<br>or Oil Contaminated Soil)                       |  | Waste S                | Solid  | (9) HAZARDOUS CHENICAL INGRED PERCENTAGE OF EACH   | INGREDIENTS & OF EACH   | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT   |
| (2)<br>HAXIMUN<br>QUANTITY<br>ANY TIME   | (3)<br>10TAL<br>YEARLY<br>OUANTITY   | (4)<br>STORAGE<br>TYPES                           | (5)<br>TREAT 4.<br>DISPOSAL   | (6)<br>WASTE H<br>CODE C   | (7)<br>HAZARD<br>CLASS | (8)<br>EXTREM-<br>ELY HA-                        | Dirt/Soil<br>Oil (motor)   | 80 x<br>25 x  |   |
| 250 lb.  | \$50 lb.   | В   | 03  | N/A  | ΙD                     | ZARDOUS  | Metal Shavings   | 1-2 **  |   |
| ·  |  |   |   |  |                        |  |  | 14 1  |   |
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| LOCATION OF HAZARDOUS WASTE:   | [                                  | COMPLETE ALL               | ITEMS IN                    | <u> </u>             | \$<br>()               |                                      | 1000   |  |
|--|------------------------------------|----------------------------|-----------------------------|----------------------|------------------------|--------------------------------------|--|--|
| <b>E</b>   | ER: W2                             | 100010                     |                             | 1 1                  | BUTLDI<br>OR UND       | MG NAME,<br>ERGROUND                 | BUILDING NAME, OUTDOOR AREA,  OR UNDERGROUND TANK NUMBERS Hazardous Waste Storage Area | Hollywood, CA 91605  |
|  | ***********                        | ******                     | *****                       | ***                  |                        | *****                                |  | <b>化妆成石的名词复数在农民的现在分词在农民的现在分词的现在分词的现在分词</b>                   |
| A HAZARDOUS C WASTE  | Waste Polyn<br>(I                  | Polymeric Di<br>(Instapak) | Diphenylmethane<br>k)       | ethane<br>UN 2       |                        | Diisoyanate<br>189                   | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH                                | (10)<br>CAS MUMBERS OF<br>EACH INGREDIENT                    |
| 1  |                                    |                            |                             |                      |                        |                                      | 4,4 Diphenvlmethane  | *  |
| (2)<br>MAXIMUM<br>OHANTITY   | (3)<br>TOTAL<br>YFABI V            | (4)<br>STORAGE<br>TVPES    | (5)<br>TREAT &.             | (9)<br>WASTE         | (7)<br>HAZARD          | (8)<br>EXTREM-                       | Dijsocyanate (MDI)   | 50 🕱 101 68 8  |
| ANY TIME   | QUANTITY                           | }                          | 7501030                     |                      | 6                      | ZARDOUS                              | Higher molecular weight  | **   |
| 200 1b.  | 200 lb.                            | ph                         | \$                          | N/A                  | 10                     |                                      | oligomers of MDI   | 50 \$ 9016-87-9  |
|  |                                    |                            |                             |                      |                        |                                      |  | *  |
|  | معي                                |                            |                             |                      |                        | •                                    |  | ×  |
| \$ | ***********                        | ****                       | ****                        | ****                 |                        | ***                                  |  | <b>非我就就是我们的有效的,我们的的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人</b> |
| A HAZARDOUS C WASTE D NAME   | ce I                               | Paint Re]<br>: Liquid      | a Me<br>NA                  | terial<br>1263       | ·                      |                                      |  | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT                    |
|  | Lnt                                | Stripper)                  | EPA # DO                    | D001                 |                        |                                      | Paint Stripper   | 65 <b>x</b>  |
| (2)<br>HAXIMIN<br>QUANTITY<br>ANY TIME                                     | (3)<br>TOTAL<br>YEARLY<br>QUANTITY | (4)<br>STORAGE<br>TYPES    | (5)<br>TREAT &.<br>01SPOSAL | (6)<br>WASTE<br>CODE | (7)<br>HAZARD<br>CLASS | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS | Phenol<br>Varnish  | 25 %<br>10 %   |
| 55 gal.  | 55 gal.                            | æ                          | हुव                         | N/A                  | 3A                     |                                      |  | **   |
|  |                                    |                            |                             | 1                    |                        |                                      |  | **   |
|  | <b>电电电影电影电影电影电影电影</b>              |                            |                             | 4                    |                        |                                      |  | <b>14</b>  |
| (C)  |                                    |                            |                             |                      |                        |                                      |  |  |
| C WASTE NAME   | RQ Waste Cy<br>Poison B            | Cyanide So<br>Un 1935      | Solution,<br>5 EPA          | n.o.s                | · .                    |                                      | OUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH  | CAS MMBERS OF EACH INGREDIENT                                |
| (2)<br>MAXIMAN<br>QUANTITY<br>ANY TIME                                     | (3)<br>TOTAL<br>YEARLY<br>QUANTITY | (4)<br>STORAGE<br>TYPES    | (5)<br>TREAT &.<br>DISPOSAL | (6)<br>WASTE<br>CODE | (7)<br>HAZARD<br>CLASS | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS | cadmium chronium, zinc, copper, lead   | 24 7440-43-9   |
| 465 gal.   | 1790 gal                           | H                          | 20                          | 711                  | 5B                     |                                      | الم ا  | <b>¥</b> 90  |
|  |                                    |                            |                             | İ                    |                        |                                      |  | >4   |
| ***************************************                                    |                                    |                            |                             |                      |                        |                                      |  | 74   |

DATA ENTRY INIT

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INSP. INIT

FOR OFFICE USE ONLY: INSP. 10\_

| PAKE C. PURE  | PHENT FOR HAZARDOUS WASTE INVENTORY   | S WASTE I  | NVENTORY  |  |  |  | (   | Use # 026645-001   | 5-001-6  | ر کی  | u.  |
|---|---|--|---|--|--|--|---|--|--|---|---|
| INSTRUCTIONS: RE  1. COMPL  BOX B   | NS: READ ALL THE INSTRUCTIONS BELOW AND PHOTOCOPY EX COMPLETE A <u>SEPARATE FORM</u> FOR EACH BUILDING, OUTDOOR BOX BELOW TO SPECIFY THE LOCATION OF THE HAZARDOUS  | RUCTIONS<br>FORM FOR<br>THE LOCA   | BELOW AND<br>EACH BUILD<br>TION OF TH   | PHOTOCOF<br>ING, OUT   | Y EXTRA<br>TDOOR ARE<br>XOUS WAST  | S.¥S   | TES OF THIS FORM BEFORE UNDERGROUND TANK OR ROOM LISTED ON THIS FORM.                                     | TES OF THIS FORM BEFORE COMPLETING IT. UNDERGROUND TANK OR ROOM WHERE MAZARDOUS WASTES LISTED ON THIS FORM.  | S WASTES INVENTORY   | INVENTORY IS BEING AMENDED. U   | USE THE   |
| LOCATION OF HAZARDOUS WASTE:  |   | OMPLETE A  | COMPLETE ALL ITEMS IN THIS BOX  | N THIS B   | 0X.  |  |   |  | ,<br>  |   |   |
| BUSINESS MAME: Allied-Signal Electrodynamics ROOM MAME OR NUMBER: W2  | Allied-Signa<br>BER: W2   | l Electr   | odynamic  |  | Division<br>Build<br>OR UN   | ING NAME,<br>DERGROUND   | ADDRESS:<br>ILDING NAME, OUTDOOR AREA,<br>UNDERGROUND TANK NUMBERS  | 11600 Sherman Way,<br>Hazardous Waste St   | ay, N. Hollywood,<br>Storage Area  | od, CA 91605  |   |
| 2. COMPLE PAKE 9 FILE F FILE PAKE 94. RETURN  | COMPLETE ITEMS 1-10 FOR EACH ADDITION, CHANGE OR DELETION OF HAZARDOUS WASTE GENERATED, MAKE SURE YOU INDICATE WHETHER THE INFORMATION SHOULD BE ADDED, CHANGED OR DELETED FROM FILE BY MARKING THE APPROPRIATE COUPLY THE MITTEM ATTACHED TABLE, AND THE ATTACHED TABLE, AND THE STACHED TABLE RETURN COMPLETED WASTE INVENTORY AMENDMENT TO THE FIRE DEPARTMENT ALONG WITH PART A AND | FOR EACH /<br>TE WHETHEI<br>APPROPRIA<br>ATTACHED  | ADDITION, OR THE INFORMATION OF | CHANGE OR RHATION TO REAL IN TO T  | R DELET<br>SHOULD<br>#1.<br>ITEMS 4  | ION OF HABE ADDED, 5 AND 7 DEPARTME  | ZARDOUS WASTE (CHANGED OR DEI   | COMPLETE ITEMS 1-10 FOR EACH ADDITION, CHANGE OR DELETION OF HAZARDOUS WASTE GENERATED, STORED OR MAKE SURE YOU INDICATE WHETHER THE INFORMATION SHOULD BE ADDED, CHANGED OR DELETED FROM THE CURREING THE APPROPRIATE CONTINUITY AT ITEMS 4, 5 AND 7. FOR ITEM 6, USE TABLE III ON THE RETURN COMPLETED WASTE INVENTORY AMENDMENT TO THE FIRE DEPARTMENT ALONG WITH PART A AND BART B.          | HANDELED AT THE L<br>NT DISCLOSURE THATE<br>E BACK OF YOUR UNI   | STORED OR HANDELED AT THE LOCATION SPECIFIED ABOVE. THE CURRENT DISCLOSURE THAT THE FIRE DEPARTMENT HAS ON III ON THE BACK OF YOUR UNIFORM HAZARDOUS WASTE MANIFE | OVE.<br>HAS ON  |
| ADDITIONAL INSTRUCTIONS: ITEM 1: CHECK APPROPRIATE CODE: "A" IN THE INFORMATION THAT WAS REPORTED FOR THAT WASTE, "D" INDICATES QUANTITY HANDELED OR STORED AT ANY ONE TIME AT THE ABOVE LOCATION HANDELED OR STORED AT THE ABOVE LOCATION; INCLUDE UNITS (POUNDS TABLE 1). ITEM 5: USE ALL TREATHENT AND DISPOSAL METHODS THAT INCLUDE IN THE MANIFEST (TABLE III ON THE BACK OF THE MANIFEST). ITEM 7: ENTER PERCENTAGE OF CONCENTRATION. ITEM 10: ENTER THE CAS (CHEMICAL) | KCTIONS: ITEM 1. THAT WAS REPORTED TO A THE ABOVE IS USE ALL TREATION THE BACK INGREDIENT IS EXEMPLEATION.  | CHECK APED FOR THAN ONE TI LOCATION; PEND OF THE MAD OF | PROPRIATE IT WASTE, HE AT THE INCLUDE IT DISPOSAL POLIFEST). HAZARDOUS  | CODE: "TO INDIANTS (PARTED STE | A" IMDIC<br>CATES A<br>OCATION<br>OUNDS,<br>OUNDS,<br>OUNDS,<br>OUNDS,<br>OUNDS,<br>OUNDS,<br>OUNDS,<br>OUNDS,<br>OUNDS,<br>OUNDS,<br>OUNDS,<br>OUNDS,<br>OUNDS,<br>OUNDS,<br>OUNDS, | WOLCATES A WASTE THE TOWN: INCLUDE S, GALLONS, A PPLY (USE PPLY (U | ASTE THAT IS BE AT HAS BEEN DEL UNITS (POUNDS. UNITS (PET) ARBLE 4). ITEM AZARO CLASS THA (TREMELY HAZARO | A WASTE THAT IS BEING ADOED TO YOUR EXISTING INVENTORY THAT HAS BEEN DELETED. ENTER THE HAZARDOUS WASTE MAME TO COUNTS (POUNDS, Enter THE HAZARDOUS WASTE MAME OF CUBIC FEET). If HE 4: LIST ALL TYPES OF CONTAINERS (FARE A). IEM 6: ENTER THE HAZARDOUS WASTE CODE US HAZARD CLASS THAT APPLIES TO THE WASTE (USE TABLE 3). EXTREMELY HAZARDOUS SUBSTANCES). ITEM 9: ENTER HAZARDOUS TABLE 3). | (ISTING INVENTORY, REDOUS WASTE NAME.)  1) . ITEM 3: ENTER: S OF CONTAINERS US OUS WASTE CODE US SIFE (USE TABLE 3). | **************************************  | WGE IN<br>WAXIMUN<br>IY<br>IE (USE<br>WASTE<br>BOX IF |
| (1) A HAZARDOUS C WASTE D WASTE   | Waste Poisonous Solid<br>Poison B Un 281.   | onous So<br>Un   | olid, n.o.s<br>2811   | EPA  | A # DO   | D007   | HAZARDOU  | (9) HAZARDOUS CHENICAL INGREDIENTS PERCENTAGE OF EACH  | TE &   | CAS NUMBERS OF<br>EACH INGREDIENT   | IS OF   |
| (2)<br>MAXIMUN<br>QUANTITY<br>ANY TINE  | (3)<br>TOTAL<br>YEARLY<br>QUANTITY  | (4)<br>STORAGE<br>TYPES  | TRE #   | (6)<br>WASTE<br>COOE   | (7)<br>HAZARD<br>CLASS   | (8)<br>EXTREMELY HA-   | arsenions_oxide   | . oxide  | 100 1  |   |   |
| 10 lb.  | 10 15.  | д  | 27  | 551  | 5B   | CARIOUDS   |   |  | *  |   |   |
|   |   |  |   |  | ***  |  |   |  | * ** <br>  ** <br>   |   |   |
| A HAZARDOUS<br>C WASTE<br>D WANE  | RQ Hazardo<br>(Chrome C   | Hazardous Waste<br>Nhrome Cakes)   | e Solid,  | n.o.s.<br>NA 91<br>EPA   | ).s., ORM-E<br>1 9189<br>EPA # DOO7  | DOO7, DOC8,  | HAZARDOU:   | HAZARDOUS CHEMICAL INGREDIENTS PERCENTAGE OF EACH  | \$ 51  | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT   | S OF<br>DIENT   |
| (2)<br>HAXIMIN<br>QUANTITY<br>ANY TINE  | (3)<br>TOTAL<br>YEARLY<br>QUANTITY  | (4)<br>STORAGE<br>TYPES  | (5)<br>TREAT &.<br>DISPOSAL   | (6)<br>WASTE   | 8,0  |  | ndium<br>hospha<br>odium  | chromate<br>tes<br>sulfate   | 8-11 x   | 775-11-3  |   |
| 475 c. yd.  | 1000 lb.  | B  | 27  | 181  | 11   |  | other metals  | 18   | .35%   | 7757-82-6   |   |
|   |   |  |   |  |  |  | veter   |  | 65-70\$  |   |   |
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| ACCOUNTS TO THE PROPERTY OF TH |  | A  |
|--|--|--|
| MARER: W2  MASTER COLTOSIVE SOLID, N.O.S., CONTOSIVE MATERIAL UN 1759  (Chromic Acid Sludge)  (Chromic Acid Sludge  (Chromic Acid Sludge)  (Chromic Acid Sludge)  (Chromic Acid (Chromic Acid Acid Acid Acid Acid Acid Acid Ac   | MAZARDOUS   Maste Corrosive Solid, n.o.s.,   NA   NA   NA   NA   NA   NA   NA   N  |  |
| Chromic Acid Sludge   Corrosive Solid, n.o.s.,   Chromic Acid Sludge   Corrosive Material   UN 1759   Chromic Acid Sludge   Corrosive Material   UN 1759   Chromic Acid Sludge   Core Cive Sive Material   UN 1759   Chromic Acid Sludge   Core Cive Sive Material   UN 1759   Chromic Acid Sludge   Core Cive Sive Material   Chromic Acid Sludge   Core Cive Sive Material   Chromic Acid Sludge   Core Cive Sive Material   Chromic Acid Sludge   Core Cive Sive Material   Chromic Acid Sludge   Core Cive Sive Material   Chromic Acid Sludge   Core Cive Sive Material   Cor   | MASREDUS RQ Waste Corrosive Solid, n.o.s., MASREDUS RQ Waste Corrosive Material UN 1759   EPA # DO COMMITTY   MASTE Corrosive Material UN 1759   EPA # DO COMMITTY   TYPES   DISPOSAL CODE CLASS ANY TIME   Chromic Acid Sludge)   EPA # DO COMMITTY   TYPES   DISPOSAL CODE CLASS ANY TIME   Chromic Acid Sludge)   EPA # DO CODE CLASS ANY TIME   Chromic Acid Sludge)   EPA # DO CODE CLASS ANY TIME   Chromic Acid Sludge)   EPA # DO CODE CLASS ANY TIME   Chromic Acid Sludge)   EPA # DO COD COD COD COD COD COD COD COD COD  | 4200 lb. B_ 22_ 181 lD   |
| Chromic Acid Sludge   Corrosive Solid, n.o.s., waste   Corrosive Maste Corrosive Solid, n.o.s., waste   Corrosive Maste Corrosive Masterial   UN 1759  | WASTE   W2   | 4200 lb. B 22 181 lD   |
| Control   Cont   | WAZREOUS   WASTE   Corrosive   Solid, n.o.s., waste   Corrosive   Mazardous   Corrosive              | 4200 lb. B_ 27_ 181 lD   |
| Control   Cont   | MAZARDOUS   RQ Waste Corrosive Solid, n.o.s., waste   Chromic Acid Sludge)   RQ Waste Corrosive Material   UN 1759   EPA # DG (1)   MAZARDOUS   RQ Waste Corrosive Material   UN 1759   EPA # DG (1)   Chromic Acid Sludge)   EPA # DG (1)   Chromic Acid Sludge)   EPA # DG (1)   Chromic Acid Sludge)   EPA # DG (1)   Chromic Acid Sludge)   EPA # DG (1)   Chromic Acid Sludge)   EPA # DG (1)   Chromic Acid Sludge)   EPA # DG (1)   Chromic Acid Sludge)   EPA # DG (1)   Chromic Acid Sludge)   EPA # DG (1)   Chromic Acid Sludge)   EPA # DG (1)   Chromic Acid Sludge)   EPA # DG (1)   Chromic Acid Sludge   EPA # DG (1)   Chromic Acid Sludge   EPA # DG (1)   Chromic Acid Sludge   EPA # DG (1)   Chromic Acid Sludge   Chros Chros Chromic Acid Sludge   Chros Chromic Acid Sludge   Chromic Acid Slu             | 4200 lb. B. 27 181 lb  |
| Control   Cont   | MAZARDOUS   RQ   Waste Corrosive   Solid,   n.o.s.,   Waste   Chromic Acid   Sludge   Chromic Acid   Sludge   Chromic Acid   Sludge   Chromic Acid   Sludge   Chromic Acid   Sludge   Chromic Acid   Sludge   Chromic Acid   Sludge   Chromic Acid   Sludge   Chromic Acid   Sludge   Chromic Acid   Sludge   Chromic Acid   Sludge   Chromic Acid   Sludge   Chromic Acid   Sludge   Chromic Acid   Sludge   Chromic Acid   Chromic Acid   Sludge   Chromic Acid   Ch             |  |
| Corrosive Rq Waste Corrosive Solid, n.o.s., waste Clarifier waste   NA 9189  | MAXING   MASTER   MASTER   MASTER   MASTER   MASTER   MASTE   MASTER   MAS             |  |
| Control   Cont   | WASTE   Waste   Corrosive   Solid, n.o.s., waste   Chromic Acid   Sludge   Corrosive   C             |  |
| Control   Cont   | MAZARDOUS   RQ   Waste Corrosive   Solid,   n.o.s.,   Waste   Corrosive   Material   UN 1759   EPA # DO   UN 1759   Corrosive   Material   UN 1759   EPA # DO   UN 1759   Corrosive   Material   UN 1759   EPA # DO   UN 1759   EPA # DO   EPA #             |  |
| Control   Cont   | NAXIDAR   Control   Cont             | CLANTITY   |
| Corrosive Material   | WASTED   WEARDOUS   WASTE                | TEARLY TYPES DISPOSAL CODE CLASS   |
| Chromic Ail Ted-Signal Electrodynamics Division  | USINESS WAME: Allied-Signal Electrodynamics Division  ONE WANTE  (1)  WASTE  Corrosive Material  (2)  WASTE  (3)  (4)  (4)  (5)  WASTE  (Chromic Acid Sludge)  (Chromic Acid Sludge)  (Chromic Acid Sludge)  (Chromic Acid Sludge)  (Chromic Acid Sludge)  (A)  (A)  (A)  (A)  (A)  (A)  (A)  (  | VEADING TYPES  |
| Corrosive Material   | CONTINUES WAME: Allied-Signal Electrodynamics Division   Bullo   | TOTAL STORAGE TREAT & WASTE HAZARD   EXTREM.   |
| Chromic Aillied-Signal Electrodynamics Division  | USINESS WAME: Allied-Signal Electrodynamics Division  ONE WANTED  ONE WASTE  (1)  WASTE  (2)  WASTE  (3)  (4)  Chromic Acid Sludge)  (Chromic Acid Sludge)  (A)  (A)  (A)  (A)  (A)  (A)  (A)  (  | (2) (2) (2) (3)  |
| ### OR NUMBER:   | USINESS WAME: Allied-Signal Electrodynamics Division  ONE WANTE  (1)  WASTE  Corrosive Material  WASTE  Corrosive Material  UN 1759  EPA # DO  (1)  WASTE  (1)  WASTE  (2)  WASTE  Corrosive Material  UN 1759  EPA # DO  (1)  WASTE  (1)  WASTE  (2)  WASTE  (1)  WASTE  (2)  WASTE  (3)  WASTE  (1)  WASTE  (1)  WASTE  (2)  WASTE  (1)  WASTE  (2)  WASTE  (3)  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  WASTE  (1)  WASTE  WASTE  WASTE  (1)  WASTE  WASTE  WASTE  (1)  WASTE  WASTE  WASTE  WASTE  (1)  WASTE             | (1) (1) (2) (3)  |
| MAZARDOUS   Hazardous   Waste   Solid, n.o.s.,   Waste   Solid, n.o.s.,   Waste   Corrosive   Solid, n.o.s.,   Waste   Corrosive   Solid, n.o.s.,   Waste   Corrosive   Material   UN 1759   EPA # DC   Chromic   Acid   Sludge   EPA # DC   Chromic   Acid   Sludge   EPA # DC   Chromic   Acid   Sludge   EPA # DC   Chromic   Acid   Sludge   EPA # DC   Chromic   Acid   Sludge   EPA # DC   Chromic   Acid   Sludge   EPA # DC   Chromic   Acid   Sludge   EPA # DC   Chromic   Acid   Sludge   EPA # DC   Chromic   Acid   Sludge   EPA # DC   Chromic   Acid   EPA # DC   Chromic   Clarifier   Waste   Corrosive   C   | USINESS WAME: Allied-Signal Electrodynamics Division  OCH NAME OR NUMBER: W2  OCH MANE OR NUMBER: W2  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s., NAME Corrosive Material UN 1759  (2)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s., NAME Corrosive Material UN 1759  (3)  (4)  (7)  HAZARDOUS RQ Waste Corrosive Code CLASS  ANY THE QUANTITY  (1)  HAZARDOUS HAZARDOUS Waste Liquid, n.o.s. nR <sup>v-</sup> E  (1)  WXIII  (1)  HAZARDOUS HAZARDOUS Waste Solid, n.o.s. ORM-E  WASTE (Slarifier waste)  WANT THE COMMITTY  QUANTITY  QUANTITY  QUANTITY  QUANTITY  (1)  HAZARDOUS  HAZARDOUS Waste Solid, n.o.s. ORM-E  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  (1)  WASTE  WASTE  (1)  WASTE  (1)  WASTE  WASTE  (1)  WASTE  (1)  WASTE  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  WASTE  (1)  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  (1)  WASTE  WASTE  WASTE  (1)  WASTE  WASTE  WASTE  (1)  WASTE | # D006 D007 D008   aluminum oxide dust   |
| MAZARDOUS   Clarifier waste   Cores  | 100   WANTE OR NUMBER:   W2   W2   W3   W3   W3   W4   W4   W4   W4   W4   | COOK POOC SOL  |
| USINESS MAME: All Teal-Signal Electrodynamics Division Bullo ON LAW CONTROL MASTE Corrosive Material UN 1759 EPA # DC (Chromic Acid Sludge) EPA # DC (Chrom | USINESS MAME: Allied-Signal Electrodynamics Division  OCH NAME OR NUMBER: W2  OCH NAME  (1)  WASTE  Corrosive Material  WASTE  Corrosive Material  UN 1759  (4)  STORGE  Chromic Acid Sludge)  Chromic Acid Sludge)  (7)  Chromic Acid Sludge)  EPA # DG  Chromic Acid Sludge)  (1)  HAZARDOUS  WASTE  (1)  HAZARDOUS  WASTE  (2)  (3)  Chromic Acid Sludge)  (4)  STORGE  Chromic Acid Sludge)  (4)  STORGE  CLASS  ANY TIME  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (2)  (3)  (4)  (5)  (6)  (7)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (2)  WASTE  (3)  (4)  (5)  (6)  (7)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (2)  (3)  WASTE  (4)  (5)  (6)  (7)  WASTE  (1)  WASTE  WASTE  (1)  WASTE  (1)  WASTE  WASTE  (1)  WASTE  W           | (Aluminum Oxide Dust) NA 9189  |
| MAZARDOUS NAME:   HITEG-SIGNAL   ELECTROGYNAMICS DIVISION  | USINESS MAME: Allied-Signal Electrodynamics Division  ON NAME OR NUMBER: W2  ON NAME  (1)  HAZARDOUS  RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material  (1)  HAZARDOUS  RQ Waste Corrosive Solid, n.o.s.,  (1)  HAZARDOUS  RQ Waste Corrosive Solid, n.o.s.,  (1)  HAZARDOUS  RQ Waste Corrosive Solid, n.o.s.,  (1)  HAZARDOUS  HAZARDOUS  HAZARDOUS  WASTE  WASTE  (1)  HAZARDOUS  WASTE  WASTE  (1)  HAZARDOUS  WASTE  WASTE  (2)  WASTE  WASTE  WASTE  WASTE  (1)  HAZARDOUS  WASTE  W           | (41.70 C. 1.10 |
| Chromic Acid Sludge   Division    | USINESS MAME: Allied-Signal Electrodynamics Division  ON NAME OR NUMBER: W2  (1)  HAZARDOUS RO Waste Corrosive Solid, n.o.s.,  MASTE Corrosive Material UN 1759  (2)  HAZARDOUS RO Waste Corrosive Solid, n.o.s.,  (3)  HAZARDOUS RO Waste Corrosive Solid, n.o.s.,  (4)  (5)  (6)  (7)  HAZARDOUS WASTE Liquid, n.o.s. OR"-E WASTE  WASTE (clarifier waste)  WASTE (clarifier waste)  WASTE (13)  WASTE (13)  WASTE (14)  WASTE (14)  WASTE (15)  WAS           | nazaruous waste solid, n.o.s. OKM-E  |
| Control   Cont   | USINESS MAME: Allied-Signal Electrodynamics Division  ON NAME OR NUMBER: W2  (1)  HAZARDOUS  Chromic Acid Sludge)  Chromic Acid Sludge)  (2)  HAZING Chromic Acid Sludge)  (1)  HAZING Chromic Acid Sludge)  Chromic Acid Sludge)  (2)  HAZING Chromic Acid Sludge)  (3)  Chromic Acid Sludge)  (4)  HAZING Chromic Acid Sludge)  (6)  HAZING Chromic Acid Sludge)  (7)  HAZING Chromic Acid Sludge)  (1)  HAZING Chromic Acid Sludge)  (1)  HAZING Chromic Acid Sludge)  (1)  HAZING Chromic Acid Sludge)  (1)  HAZING Chromic Acid Sludge)  (1)  HAZING Chromic Acid Sludge)  (1)  HAZING Chromic Acid Sludge)  (1)  HAZING Chromic Acid Sludge)  (1)  HAZING Chromic Acid Sludge)  (2)  HAZING Chromic Acid Sludge)  (1)  HAZING Chromic Acid Sludge)  (2)  HAZING Chromic Acid Sludge)  (1)  HAZING Chromic Acid Sludge)  (2)  HAZING Chromic Acid Sludge)  (1)  HAZING Chromic Acid Sludge)  (1)  HAZING Chromic Acid Sludge)  (2)  HAZING Chromic Acid Sludge)  (2)  HAZING Chromic Acid Sludge)  (3)  HAZING Chromic Acid Sludge)  (4)  HAZING Chromic Acid Sludge)  HAZING Chromic Acid Slud           | T MOO TO THE FEBRUARY OF THE PROPERTY OF THE P |
| Corrosive Material   UN 1759   UN 1868   UN 1868   UN 1869   UN    | NAME OR NUMBER:   W2   BUILD   | (0)  |
| Common   C   | USINESS NAME: Allied-Signal Electrodynamics Division  ON NAME ON NUMBER: W2  HAZARDOUS RQ Waste Corrosive Solid, n.o.s., NAME Corrosive Material UN 1759  Chromic Acid Sludge)  Chromic Acid Sludge  Chromic Acid Sludge)  Chromic Acid Sludge)  Chromic Acid Sludge)  Chromic Acid Sludge)  Chromic Acid Sludge)  Chromic Acid Sludge  Chromic Acid Sludge)  Chromic Acid Acid Acid Acid Acid Acid Acid Ac  | <b>电电话电电话电话电话电话电话电话电话电话电话电话电话电话电话电话电话电话电话</b>  |
| 100    | USINESS NAME: Allied-Signal Electrodynamics Division  ON NAME ON NUMBER: W2  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material  (2)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material  (2)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material  (1)  HAZARDOUS RQ Waste Liquid, n.o.s. OR**-  MA 9189  WASTE (clarifier waste)  WASTE (clarifier waste)  WASTE (clarifier waste)  WASTE (clarifier Waste)  WASTE (clarifier Waste)  WASTE (clarifier Waste)  WASTE (clarifier Waste)  WASTE (clarifier Waste)  HAZARDOUS RQ WANTITY  WASTE HAZARD  WASTE HAZARD  WASTE HAZARD  CODE CLASS  AN 2A  CLASS  AN 1188  HAZARDOUS RQ WASTE Liquid, n.o.s. OR**-  MA 9189  EPA # DOC  CLASS  AN 1188  WASTE HAZARD  CODE CLASS  AN 1188  WASTE HAZARD  WASTE HAZARD  WASTE HAZARD  CODE CLASS  AN 1188  WASTE HAZARD  WASTE REATE  WASTE HAZARD  WASTE REATE  WASTE HAZARD  WASTE REATE  WASTE HAZARD  WASTE REATE  WASTE HAZARD  WASTE REATE  WASTE HAZARD  WASTE REATE  WASTE WASTE REATE  WASTE HAZARD  WASTE REATE  WASTE WASTE REATE  WASTE WASTE REATE  WASTE REATE  WASTE WASTE REATE  WASTE WASTE REATE  WASTE WASTE REATE  WASTE WASTE REATE  WASTE REATE  WASTE WASTE RASTE REATE  WASTE REATE  WASTE RASTE REATE  WASTE RASTE REATE  WASTE RASTE           |  |
| 1  | USINESS NAME: Allied-Signal Electrodynamics Division  ON NAME ON NUMBER: W2  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s., WASTE Corrosive Material UN 1759  (2)  (3)  HAZIMUM YEARLY TYPES DISPOSAL CODE CLASS ANY TIME QUANTITY  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s., WASTE Corrosive Material UN 1759  (2)  HAZIMUM YEARLY TYPES DISPOSAL CODE CLASS ANY TIME QUANTITY  (1)  HAZARDOUS Waste Liquid, n.o.s. OR**-E  WASTE (clarifier waste)  HAZARDOUS HAZARDOUS Waste Liquid, n.o.s. OR**-E  WASTE (clarifier waste)  HAZARDOUS HAZARDOUS WASTE HAZARD  WASTE (Clarifier Waste)  HAZARDOUS HAZARDOUS WASTE LIQUID, n.o.s. OR**-E  WASTE (Clarifier Waste)  HAZARDOUS HAZARDOUS WASTE HAZARD  CODE CLASS  ANY TIME WASTE (CODE CLASS  ANY TIME TYPES  OLANDITY  OLANDITY  ANY TIME TYPES  OLANDITY  OLANDITY  ANY TIME TYPES  OLANDITY  OLANDITY  TYPES  OLANDITY  TYPES  OLANDITY  TYPES  OLANDITY  TYPES  OR**-E  TYPES  TOTAL  TYPES  OLANDITY  TYPES  TOTAL  TYPES             |  |
| 1)   | USINESS NAME: Allied-Signal Electrodynamics Division  ON NAME ON NUMBER: W2  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s., WASTE Corrosive Material UN 1759  (2)  (3)  (3)  (4)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s., WASTE Chromic Acid Sludge)  (4)  (7)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s., WASTE Chromic Acid Sludge)  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s., WASTE Clarifier waste)  (3)  HAZARDOUS HAZARDOUS Waste Liquid, n.o.s. ORV-E  WASTE (clarifier waste)   |  |
| 100    | USINESS NAME: Allied-Signal Electrodynamics Division  ON NAME ON NUMBER: W2  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s., WASTE Corrosive Material UN 1759  (2)  (2)  (3)  HAZIMUM YEARLY TYPES DISPOSAL CODE CLASS ANY TIME QUANTITY QUANTITY  75 yd. 75 yd. 75 yd. 8 27 N/A 2A  (1)  HAZARDOUS HAZARDOUS Waste Liquid, n.o.s. OR**-E  WASTE (clarifier waste)  HAZARDOUS HAZARDOUS WASTE Liquid, n.o.s. OR**-E  WASTE (clarifier waste)  WASTE (clarifier waste)  HAZARDOUS HAZARDOUS TYPES DISPOSAL CODE CLASS  ANY TIME WASTE (13)  WASTE (14)           |  |
| 100   Marian   Electrodynamics   Division   Buildon   W2   W2   W2   W2   W2   W3   W3   W4   W2   W4   W4   W4   W4   W4   W4   | USINESS NAME: Allied-Signal Electrodynamics Division  ON NAME OR NUMBER: W2  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE  (Chromic Acid Sludge)  (Ch           |  |
| 100   Marity   Marke   | USINESS NAME: Allied-Signal Electrodynamics Division  ON NAME OR NUMBER: W2  ON WASTE  Corrosive Material  WASTE  Corrosive Material  (1)  WASTE  Corrosive Material  (2)  (3)  (4)  (4)  (5)  (4)  (7)  MASTIMITY  CONTRICT  QUANTITY  QUANTITY  (1)  WASTE  (2)  WASTE  (1)  WASTE  (2)  WASTE  (2)  WASTE  (3)  WASTE  (4)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (2)  WASTE  (1)  WASTE  (2)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  WA           |  |
| Community   Control   Co   | USINESS NAME: Allied-Signal Electrodynamics Division  ON NAME OR NUMBER: W2  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  VASIE Corrosive Material UN 1759  (Chromic Acid Sludge)  (Chromic Acid Sludge)  (Chromic Acid Sludge)  (Chromic Acid Sludge)  (A)  STORAGE TREAT & WASTE HAZARD  ANY TIME  (A)  (A)  (A)  (A)  (A)  (A)  (A)  (A  |  |
| 100   Marger   M2  | USINESS NAME: Allied-Signal Electrodynamics Division BUILD  OWN NAME OR NUMBER: W2  WASTE Corrosive Material UN 1759  Chromic Acid Sludge)  Chromic Acid S           |  |
| USINESS NAME: A!!led-Signal Electrodynamics Division  OR UN  OR UN  INTERPORTED TO THE CORREST OF THE TOTAL  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  (2)  (3)  (3)  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  (1)  HAZARDOUS RQ Waterial  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  (1)  HAZARDOUS RQ Waste Cope (LASS OISPOSAL CODE (LASS OUNN'-E WASTE HAZARD CODE (LASS OUNN'ITY WASTE (Clarifier Waste)  (2)  HAZARDOUS RQ Waste Liquid, n.o.s. OR"-E WASTE HAZARD CODE (LASS OUNN'ITY VEARLY TYPES OISPOSAL CODE (LASS OUNN'ITY VEARLY TYPES OISPOSAL CODE (LASS OUNN'ITY VEARLY TYPES OISPOSAL CODE (LASS OUNN'ITY VEARLY TYPES OISPOSAL CODE (LASS ON N'I'ME N'I'M | USINESS NAME: Allied-Signal Electrodynamics Division  ON UNAME OR NUMBER: W2  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  VASIE Corrosive Material UN 1759  (Chromic Acid Sludge)  (Chromic Acid Sludge)  (Chromic Acid Sludge)  (A)  STORAGE TREAT & WASTE HAZARD  QUANTITY  (1)  (1)  HAZARDOUS  ANY TIME  (1)  HAZARDOUS  (2)  WASTE  (3)  WASTE  (1)  HAZARDOUS  HAZARDOUS  (1)  HAZARDOUS  WASTE  (1)  HAZARDOUS  (2)  WASTE  (3)  WASTE  (4)  (5)  (6)  (7)  HAZARDOUS  WASTE  (1)  WASTE  (2)  WASTE  (3)  WASTE  (4)  STORAGE  TREAT & WASTE  WASTE  (1)  WASTE  QUANTITY  YEARLY  TYPES  OUNTITY  YEARLY  TYPES  OUNTITY  TYPES  OUNTITY  TYPES  OUNTITY  TYPES  OUNTITY  TYPES  OUNTITY  TYPES  OUNTITY  TYPES  OUNTITY  TYPES  OUNTITY  TYPES  OUNTITY  TYPES  OUNTITY  TYPES  OUNTITY  TYPES  TYPES  OUNTITY  TYPES             |  |
| USINESS NAME: A!!led-Signal Electrodynamics Division  ON UN  ON UN  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material  (2)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  (2)  (3)  Chromic Acid Sludge)  (4)  (5)  (6)  (7)  (7)  HAZARDOUS  HAZARDOUS  HAZARDOUS Waste Liquid, n.o.s. OR*-E  WASTE (clarifier waste)  (2)  HAZARDOUS  HAZARDOUS  HAZARDOUS  HAZARDOUS  WASTE (clarifier waste)  (3)  (4)  (5)  (6)  (7)  (7)  MA 9189  EPA # DOC  EPA # DOC  (1)  WASTE (clarifier waste)  | USINESS NAME: Allied-Signal Electrodynamics Division  OND NAME OR NUMBER:  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s., WASTE Corrosive Material (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s., (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s., (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s., (1)  HAZARDOUS HAZARDOUS Waste Liquid, n.o.s. OR"-EPA # DOC  (1)  HAZARDOUS HAZARDOUS Waste Liquid, n.o.s. OR"-EPA # DOC  (2)  HAZARDOUS HAZARDOUS Waste Liquid, n.o.s. OR"-EPA # DOC  (2)  HAZARDOUS HAZARDOUS WASTE Liquid, n.o.s. OR"-EPA # DOC  (2)  HAZARDOUS HAZARDOUS WASTE Liquid, n.o.s. OR"-EPA # DOC  (2)  HAZARDOUS HAZARDOUS WASTE Liquid, n.o.s. OR"-EPA # DOC  (2)  HAZARDOUS HAZARDOUS WASTE Liquid, n.o.s. OR"-EPA # DOC  (2)  HAZARDOUS HAZARDOUS WASTE Liquid, n.o.s. OR"-EPA # DOC  (2)  HAZARDOUS HAZARDOUS WASTE Liquid, n.o.s. OR"-EPA # DOC  (3)  HAZARDOUS HAZARDOUS WASTE Liquid, n.o.s. OR"-EPA # DOC  (4)  HAZARDOUS HAZARDOUS WASTE Liquid, n.o.s. OR"-EPA # DOC  (2)  HAZARDOUS HAZARDOUS WASTE Liquid, n.o.s. OR"-EPA # DOC  (3)  HAZARDOUS HAZARDOUS WASTE Liquid, n.o.s. OR"-EPA # DOC  (4)  HAZARDOUS HAZARDOUS WASTE Liquid, n.o.s. OR"-EPA # DOC  (4)  HAZARDOUS HAZARDOUS WASTE Liquid, n.o.s. OR"-EPA # DOC  (4)  HAZARDOUS HAZARDOUS WASTE Liquid, n.o.s. OR"-EPA # DOC  (4)  HAZARDOUS HAZARDOUS WASTE Liquid, n.o.s. OR"-EPA # DOC  (4)  HAZARDOUS HAZARDOUS WASTE Liquid, n.o.s. OR CLASS  ANY TIME OUT TIME            | da].   1500 da].   M   27   135   10   |
| USINESS NAME: A!!led-Signal Electrodynamics Division  ON IND   | USINESS NAME: Allied-Signal Electrodynamics Division  OWN NAME OR NUMBER:  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material (2)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  (3)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  (4)  TOTAL  OUANTITY  ANY TIME  (1)  HAZARDOUS Waste Liquid, n.o.s. OR"-E  WASTE (1)  HAZARDOUS Waste Liquid, n.o.s. OR"-E  WASTE (1)  HAZARDOUS Waste Liquid, n.o.s. OR"-E  WASTE (Clarifier waste)  (2)  HAZARDOUS Waste Liquid, n.o.s. OR"-E  WASTE (Clarifier waste)  (2)  WASTE (Clarifier Waste)  WASTE (CODE (CLASS  QUANTITY  YEARLY  TYPES DISPOSAL CODE (CLASS  QUANTITY  WASTE HAZARD  (4)  (5)  (6)  (7)  WASTE HAZARD  CODE (CLASS  |  |
| USINESS NAME: AILIEG-SIGNAL ELECTROGYNAMICS DIVISION  ON NAME OR NUMBER: W2  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  NAME Corrosive Material UN 1759  (Chromic Acid Sludge)  (Chromic Acid Sludge)  (Chromic Acid Sludge)  (Chromic Acid Sludge)  (A)  (A)  (A)  (A)  (A)  (B)  (A)  (A  | USINESS NAME: Allied-Signal Electrodynamics Division  OND NAME OR NUMBER:  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s., WASTE Corrosive Material (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s., WASTE (Chromic Acid Sludge) (Chromic Acid Sludge) (Chromic Acid Sludge) (Chromic Acid Sludge) (Chromic Acid Sludge) (Chromic Acid Sludge) (Chromic Acid Sludge) (Chromic Acid Sludge) (Chromic Acid Sludge) (Chromic Acid Sludge) (Chromic Acid Sludge) (Chromic Acid Sludge) (Chromic Acid Sludge) (Chromic Acid Sludge) (Chromic Acid Sludge) (Chromic Acid Sludge) (Chromic Acid Sludge) (Chastely (Charifier waste)            |  |
| USINESS NAME: Allied-Signal Electrodynamics Division  ON NAME OR NUMBER: W2  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s., WASTE Corrosive Material UN 1759  HAZINGH YEARLY TYPES DISPOSAL CODE CLASS QUANTITY  75 yd. 75 yd. 75 yd. 8  WASTE (clarifier waste)  WASTE (clarifier waste)  WASTE (Clarifier Waste Liquid, n.o.s. OR"-EPA # DOC (1)  WASTE (Clarifier Waste Liquid, n.o.s. OR"-EPA # DOC (2)  WASTE (Clarifier Waste Liquid, n.o.s. OR"-EPA # DOC (2)  WASTE (Clarifier Waste Liquid, n.o.s. OR"-EPA # DOC (2)  WASTE (Clarifier Waste)  WASTE (Clarifier Waste)  WASTE HAZARDOUS WASTE Liquid, n.o.s. OR"-EPA # DOC (2)  WASTE WASTE (Clarifier Waste)  WASTE HAZARDOUS WASTE LIQUID  WASTE HAZARDOUS WASTE LIQUID  WASTE HAZARDOUS WASTE LIQUID  WASTE HAZARDOUS WASTE LIQUID  WASTE HAZARDOUS WASTE LIQUID  WASTE HAZARDOUS WASTE LIQUID  WASTE HAZARDOUS WASTE LIQUID  WASTE HAZARDOUS WASTE LIQUID  WASTE HAZARDOUS WASTE LIQUID  WASTE HAZARDOUS WASTE LIQUID  WASTE HAZARDOUS WASTE LIQUID  WASTE HAZARDOUS WASTE LIQUID  WASTE WASTE LIQUID  WASTE WASTE LIQUID  WASTE HAZARDOUS WASTE LIQUID  WASTE WASTE LIQUID  WASTE WASTE LIQUID  WASTE WASTE LIQUID  WASTE WASTE LIQUID  WASTE WASTE LIQUID  WASTE WASTE LIQUID  WASTE WASTE LIQUID  WASTE WASTE LIQUID  WASTE WASTE WASTE WASTE HAZARDOUS WASTE WAST | USINESS MAME: Allied-Signal Electrodynamics Division  OWN NAME OR NUMBER: W2  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material UN 1759  (2)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  (2)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  (3)  (1)  HAZARDOUS MANTITY  75 yd. 75 yd. 8  (1)  HAZARDOUS Waste Liquid, n.o.s. OR**-E  WASTE RAZARD  (2)  HAZARDOUS Waste Liquid, n.o.s. OR**-E  WASTE HAZARD  (2)  WASTE RAZARD  (3)  WASTE RAZARD  (4)  HAZARDOUS WASTE Liquid, n.o.s. OR**-E  WASTE HAZARD  QUANTITY  YEARLY TYPES DISPOSAL CODE CLASS   | QUANTITY VALET   |
| USINESS NAME: Allied-Signal Electrodynamics Division  ON NAME OR NUMBER: W2  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material  (2)  (2)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE (Chromic Acid Sludge)  (3)  FPA # DC  (4)  FPA # DC  (6)  (7)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE (Clarifier waste)  (1)  HAZARDOUS HAZARDOUS Waste Liquid, n.o.s. OR**-E  WASTE (Clarifier waste)  (2)  WASTE HAZARDO  (3)  (4)  (6)  (7)  MASTE HAZARDO  (6)  (7)  MASTE HAZARDO  (6)  (7)  MASTE HAZARDO  (7)  MASTE HAZARDO  (8)  (1)  MASTE HAZARDO  (1)  MASTE HAZARD  (1)  MASTE HAZARD  (1)  MASTE HAZARD  (1)  MASTE HAZARD  (1)  MASTE HAZARD  | USINESS MAME: Allied-Signal Electrodynamics Division  ON NAME  (1)  HAZARDOUS  RQ Waste Corrosive Solid, n.o.s.,  NAME  (Chromic Acid Sludge)  HAXIMUM  YEARLY  TOTAL  TOTAL  STORAGE  TREAT E. WASTE HAZARD  QUANTITY  TOTAL  TYPES  ANY TIME  (1)  HAZARDOUS  RQ Waste Corrosive Solid, n.o.s.,  (2)  RASTE HAZARD  COPE  CLASS  ANY TIME  (1)  HAZARDOUS  HAZ           | TEAKLY TITLES   DISPOSAL   CODE   CLASS   ELY HA-  |
| USINESS NAME: Allied-Signal Electrodynamics Division  ON NAME OR NUMBER: W2  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material UN 1759  (2)  HAZINGH YEARLY  VEARLY  75 yd.  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  (2)  (3)  HAZINGH YEARLY  75 yd.  (1)  HAZARDOUS Waste Liquid, n.o.s. OR"-E PA # DOC  (1)  HAZARDOUS Waste Liquid, n.o.s. OR"-E PA # DOC  (2)  (3)  (4)  (5)  (6)  (7)  MAXIMM STERMARADOUS Waste Liquid, n.o.s. OR"-E PA # DOC  (6)  (7)  MAXIMM STERMARADOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE LIREAT F WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE HAZARDOUS WASTE HAZARDOUS WASTE HAZARDOUS WASTE HAZARDOUS WASTE LIREAT F WASTE HAZARDOUS WASTE HAZAR | USINESS MAME: Allied-Signal Electrodynamics Division  WASTE  Chromic Acid Sludge)  WASTE  Chromic Acid Sludge)  WASTE  Chromic Acid Sludge)  WASTE  Chromic Acid Sludge)  WASTE  Chromic Acid Sludge)  WASTE  Chromic Acid Sludge)  EPA # DC  (1)  WASTE  Chromic Acid Sludge)  EPA # DC  (2)  WASTE  Chromic Acid Sludge)  (3)  WASTE  Chromic Acid Sludge)  (4)  (5)  (7)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (2)  WASTE  (3)  (4)  (5)  (6)  (7)  WASTE  WASTE  WASTE  WASTE  WASTE  WASTE  (6)  (7)  WASTE  WA           |  |
| USINESS NAME: Ailled-Signal Electrodynamics Division  ON NAME OR NUMBER: W2  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material UN 1759  (Chromic Acid Sludge)  | USINESS WAME: Allied-Signal Electrodynamics Division  WASTE  Corrosive Material  WASTE  Corrosive Material  (2)  WASTE  Corrosive Material  (3)  WASTE  Corrosive Material  (1)  WASTE  Corrosive Material  (1)  WASTE  Corrosive Material  (1)  WASTE  Corrosive Material  (1)  WASTE  (2)  WASTE  (1)  WASTE  (1)  WASTE  (2)  WASTE  (3)  (4)  (6)  (7)  WASTE  (6)  (7)  (6)  (7)  (6)  (7)  (7)  WASTE  (6)  (7)  (8)  (9)  (9)  (1)  WASTE  (1)  WASTE  (1)  WASTE  (1)  WASTE  (2)  (4)  (6)  (7)  (7)  (6)  (7)  (6)  (7)  (7  | TOTAL STORAGE TREAT & WASTE HAZARD FRIREM 01   |
| USINESS NAME: Ailled-Signal Electrodynamics Division  ON NAME OR NUMBER: W2  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s., WASTE Corrosive Material UN 1759  Chromic Acid Sludge) EPA # DC  (2)  HAXIMUM YEARLY TYPES DISPOSAL CODE CLASS ANY TIME QUANTITY  75 yd. 75 yd. P5 yd. P 27  (1)  HAZARDOUS Waste Liquid, n.o.s. OR**-E  WASTE (Clarifier waste)  WASTE (Clarifier waste)  WASTE (Clarifier waste)   | USINESS WAME: Allied-Signal Electrodynamics Division  WASTE  Corrosive Material  WASTE  Corrosive Material  (1)  WASTE  Corrosive Material  (2)  WASTE  Corrosive Material  (3)  Chromic Acid Sludge)  EPA # DC  (4)  (5)  WASTE  Chromic Acid Sludge)  EPA # DC  (1)  WASTE  Chromic Acid Sludge)  EPA # DC  (1)  HAZARDOUS  HAZARDOUS  WASTE  (1)  HAZARDOUS  WASTE  Clarifier waste)  EPA # DOC   | (3) (4) (5) (6) (7) (8)  |
| USINESS NAME: Ailled-Signal Electrodynamics Division  ON NAME OR NUMBER: W2  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material UN 1759  (Chromic Acid Sludge) EPA # DC  (Chromic Acid Sludge) EPA # DC  (Chromic Acid Sludge) EPA # DC  (Chromic Acid Sludge) EPA # DC  (Chromic Acid Sludge) EPA # DC  (Chromic Acid Sludge) EPA # DC  (Chromic Acid Sludge) EPA # DC  (Chromic Acid Sludge) EPA # DC  (Chromic Acid Sludge) EPA # DC  (Chromic Acid Sludge) EPA # DC  (Chromic Acid Sludge) EPA # DC  (A)  (A)  (B)  (Chromic Acid Sludge) EPA # DC  (Chromic Acid Sludge) EPA # DCC  (Chromic Acid Sludge) EPA # DCC  (A)  (B)  (B)  (Chromic Acid Sludge) EPA # DCC  (Chromic Acid Sludge) EPA # DCC  (Chromic Acid Sludge) EPA # DCC  (Chromic Acid Sludge) EPA # DCC  (A)  (A)  (B)  (B)  (B)  (Chromic Acid Sludge) EPA # DCC  (Chromic Acid Sludge) EPA # | USINESS WAME: Allied-Signal Electrodynamics Division  WILLD  ON UN  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material  (2)  HAXIMUM  Chromic Acid Sludge)  Chromic Acid Sludge)  FPA # DC  (3)  FORMULY  VEARLY  OUANTITY  QUANTITY  VEARLY  TYPES  OISPOSAL  (10)  (11)  HAZARDOUS  HAZARDOUS  HAZARDOUS  WASTE  Clarifier waste)  NA 9189  EPA # DOC  CLASS  OR UN  ON 1759  OR UN  ON 1759  ON 1759  CLASS  ON 1759  ANY 11ME  CLASS  ON 1899  EPA # DOC  CLASS  ON 1899  NAME  MASTE  Clarifier waste)  |  |
| USINESS NAME: Allied-Signal Electrodynamics Division  ON NAME OR NUMBER: W2  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material UN 1759  (Chromic Acid Sludge) EPA # DG  (Chromic Acid Sludge) EPA # D | USINESS NAME: Allied-Signal Electrodynamics Division  BUILD  DOM NAME OR NUMBER: W2  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material UN 1759  (Chromic Acid Sludge)  (Chromic Acid Sludge)  (Chromic Acid Sludge)  (A)  (A)  (B)  (A)  (B)  (A)  (B)  (A)  (B)  (A)  (B)  (A)  (B)  (A)  (B)  (A)  (B)  (A)  (B)  (A)  (B)  (A)  (B)  (A)  (B)  (A)  (B)  (A)  (B)  (A)  (B)  (A)  (B)  (A)  (B)  (A)  (B)  (B  | # COOR #   |
| USINESS NAME: AIIIEd-Signal Electrodynamics Division  ON NAME OR NUMBER: W2  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material UN 1759  (Chromic Acid Sludge)  EPA # DC  (Chromic Acid Sludge)  EPA # DC  (Chromic Acid Sludge)  EPA # DC  (Chromic Acid Sludge)  EVASIE (Chromic Acid Sludge)  EPA # DC  (A)  STORAGE TREAT 6. WASTE HAZARD  QUANTITY  ANY TIME  75 yd. P. 27  (1)  HAZARDOUS Waste Liquid, n.o.s. OR**-E  WASTE (Clarifier waste)  NA 9189  | USINESS NAME: Allied-Signal Electrodynamics Division  BUILD  BUILD  ON UN  (1)  HAZARDOUS RQ Waste Corrosive Solid, n.o.s.,  WASTE Corrosive Material  (2)  HAZIMUM  VEARLY  QUANTITY  QUANTITY  75 yd.  (1)  FAXIMUM  VEARLY  ANY TIME  (1)  FAXIMUM  VEARLY  ANY TIME  (1)  FAXIMUM  VEARLY  ANY TIME  (1)  FAXIMUM  VEARLY  ANY TIME  (1)  FAXIMUM  VEARLY  ANY TIME  (1)  FAXIMUM  VEARLY  ANY TIME  (1)  FAXIMUM  VEARLY  ANY TIME  (1)  FAXIMUM  VEARLY  ANY TIME  (1)  FAXIMUM  VEARLY  ANY TIME  (1)  FAXIMUM  VEARLY  ANY STABLY  ANA 9189  | FDA # DOOK   |
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| ed-Signal Electrodynamics Ulvision Name, Ourbook Area Hazardous Waste Storage Afrea Or Underground Tank NUMBERS  | ed-Signal Electrodynamics Division ADDRESS: 11600 Sherman Way, I. Hollywood, CA BUILDING NAME, OUTDOOR AREA. Hazardous Waste Storage Area OR UNDERGROUND TANK NUMBERS  |  |
| ed-Signai Electrodynamics Division Ame, Ourbook Area  W2 W2 W2 W2 W2 W2 W2 W2 W2 W2 W3 W3 W3 W3 W3 W3 W3 W3 W3 W3 W3 W3 W3   | ed-Signal Electrodynamics Division BUILDING NAME, OUTDOOR AREA. Hazardous Waste Storage Area OR UNDERGROUND TANK NUMBERS   |  |
| ed-Signal Electrodynamics Division NAME, OUTDOOR AREA, Hazardous Waste Storage Area  | ed-Signal Electrodynamics Division ADDRESS: 11600 Sherman Way, I. Hollywood, CA BUILDING NAME, OUTDOOR AREA, Hazardous Waste Storage Area  | ON UNDERWOOD I ANY MOTIBLES  |
| Ailled-Signal Electrodynamics Division NAME, OUTDOOR AREA, Ussedone Histo Ctorso Aco.  | Allied-Signal Electrodynamics Division ADDRESS: 11600 Sherman May, I. Hollywood, CA BUILDING NAME, OUTDOOR AREA, Washell May, I. Hollywood, CA   | DA INDIANA NIEMBIRA COLONIA NA NIEMBIRA COLONIA NA NIEMBIRA COLONIA NA NIEMBIRA COLONIA NIEMBIRA NIEMBIRA COLONIA NIEMBIRA NIEMBIRA COLONIA NIEMBIRA NIEMBIRA N |
| Ailled-Signal Electrodynamics Division NAME CAMPAGES: 11600 Sherman May, I. Sollywood, CA.   | Allied-Signal Electrodynamics Division Appress: 11600 Sherman Way, I. Hollywood, CA  | 12 Marsholle Hack  |
| AIIIed-Signal Electrodynamics Division Appress: 11600 Sherman May, I. Sollywood, CA  | Allied-Signal Electrodynamics Division ADDRESS: 11600 Sherman May, I. Hollywood, CA  | ADDA COOTING TAKE CALLO THIS   |
| の で で で で で で で で で で で で で で で で で で で  | Allied Signs Herotonomics Division   | ATTITION STATISTICS DIVISION AND ADDRESS: 11000 SHELLING IN  |
|  |  | Allied-Signal Flecthodynamics Division   |
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| BIOL D INVA   | WOMENT FOR HAZARDOUS WASTE INVENTORY   | S WASTE II  | NVENTORY   |  |   | \  | (AF  | LAFD # 026645-001-6   | 90  |
|---|--|---|--|--|---|--|--|---|---|
| INSTRUCTIONS: RE-<br>1. COMPL<br>BOX B  | TS: READ ALL THE INSTRUCTIONS BELOW AND PHOTOCOPY EXT<br>COMPLETE A <u>SEPARATE FORM</u> FOR EACH BUILDING, OUTDOOR,<br>BOX BELOW TO SPECIFY THE LOCATION OF THE HAZARDOUS W | RUCTIONS I<br>FORM FOR I  | EACH BUILD   | PHOTOCOP<br>ING, OUT<br>F HAZARD   | PY EXTRA<br>DOOR ARI<br>OUS WAS                                     | IRA COPIES O<br>AREA, UNDER<br>MASTES LISTE  | THIS FORM BEIGRE COM-<br>ROUND TANK OR ROOM WH   | COPIES OF THIS FORM BEFORE COMPLETING IT.<br>EA. UNDERGROUND TANK OR ROOM WHERE HAZARDOUS WASTES INVENTORY IS BEING AMENDED<br>IES LISTED ON THIS FORM.   | Y IS BEING AMENDED. USE THE   |
| LOCATION OF HAZARBOUS WASTE: BUSINESS NAME: Allied-Sign   |  | OMPLETE AL<br>Electi  | COMPLETE ALL ITEMS IN THIS BOX<br>al Electrodynamics Divis   | N THIS B   | IIS BOX.<br>Division  | · • • • • • • • • • • • • • • • • • • •  | 11600  | 11600 Sherman Way, N. Hollywood,  | 64, CA 21605  |
| ROOM NAME OR NUMBER:  | BER: W2  |   |  |  | BUILD<br>OR UN  | MG NAME,   | BUILDING NAME, OUTDOOR AREA, OR UNDERGROUND TANK NUMBERS HAZARDOUS   | Waste Storag  |   |
| 2. COMPLI<br>MAKE S<br>FILE E<br>7. USE TH<br>4. RETURN   | ETE ITEMS 1-10 I<br>SURE YOU INDICAL<br>BY MARKING THE A<br>HE CODES ON THE<br>V COMPLETED WAST  | FOR EACH A<br>FE WHETHER<br>APPROPRIAT<br>ATTACHED                                    | ADITION, CRITICON, CRITICON TABLE TO PER TOP P | CHANGE OR RHATION DER ITEM IN IN IN IN   | R DELETI<br>SHOULD E<br>#1.<br>ITEMS 4.                             | ON OF HA.  E ADDED,  S AND 7.  | COMPLETE ITEMS 1-10 FOR EACH ADDITION, CHANGE OR DELETION OF HAZARDOUS WASTE GENERATED, STORED MAKE SURE YOU INDICATE WHETHER THE INFORMATION SHOULD BE ADDED, CHANGED OR DELETED FROM THE CUBFILE BY MARKING THE APPROPRIATE CODE UTION ITEM #1.  USE THE CODES ON THE ATTACHED TABLE TO FILL IN ITEMS 4, 5 AND 7. FOR ITEM 6, USE TABLE III ON RETURN COMPLETED WASTE INVENTORY AMENDMENT TO THE FIRE DEPARTMENT ALONG WITH PART A AND PART B. | COMPLETE ITEMS 1-10 FOR EACH ADDITION, CHANGE OR DELETION OF HAZARDOUS WASTE GENERATED, STORED OR HANDELED AT THE LOCATION SPECIFIED ABOVE. HAKE SURE YOU INDICATE WHETHER THE INFORMATION SHOULD BE ADDED, CHANGED OR DELETED FROM THE CURRENT DISCLOSURE THAT THE FIRE DEPARTMENT HAS USE THE CODES ON THE APPROPRIATE CODE UNDER THE IN ITEMS 4, 5 AND 7. FOR ITEM 6, USE TABLE III ON THE BACK OF YOUR UNIFORM HAZARDOUS WASTE MANING COMPLETED WASTE INVENTORY AMENDMENT TO THE <u>FIRE DEPARTMENT</u> ALONG WITH PART A AND PART B.   | STORED OR HANDELED AT THE LOCATION SPECIFIED ABOVE. THE CURRENT DISCLOSURE THAT THE FIRE DEPARTMENT HAS ON III ON THE BACK OF YOUR UNIFORM HAZARDOUS WASTE MANIFE PART B.         |
| ADDITIONAL INSTRATION   THE INFORMATION   QUANTITY HANDELE HANDELED OR STORE TABLE 1). ITEM 5 MANIFEST (TABLE 1) THE WASTE OR ANY PERCENIAGE OF COM | UCTIONS: ITEM 1: THAT WAS REPORTE D OR STORED AT A ED AT THE ABOVE ILL ON THE BACK INGREDIENT IS E ECENTRATION. IT   | CHECK AP<br>NO FOR THA<br>LOCATION:<br>HENT AND<br>OF THE MA<br>XTREMELY<br>EM 10: EN | PROPRIATE IT WASTE, HE AT THE INCLUDE U DISPOSAL P NIFEST). HAZAROUS   | CODE: "O" INDI<br>ABOVE LO<br>MITS (P<br>MITS ( | A" INDIC<br>CATES A<br>OCATION;<br>OUNDS, G<br>THAT APP<br>TACHED L | ATES A WASTE THA INCLUDE ALLONS, C LY -(USE THE ONE | STE THAT IS BEING ADD<br>T HAS BEEN DELETED. EI<br>UNITS (POUNDS, GALLON<br>UBIC FEET). <u>ITEM 4:</u><br>UBLE 4). <u>ITEM 6:</u> ENTI<br>ZARD CLASS THAT APPLI<br>TREMELY HAZARDOUS SUB<br>VICE) NUMBER FOR EACH  | ADDITIONAL INSTRUCTIONS: ITEM 1: CHECK APPROPRIATE CODE: "A" INDICATES A WASTE THAT IS BEING ADDED TO YOUR EXISTING INVENTORY, "C" INDICATES A CHANGE IN THE INFORMATION THAT WAS REPORTED FOR THAT WASTE, "D" INDICATES A WASTE THAT HAS BEEN DELETED. ENTER THE HAZARDOUS WASTE NAME. ILEM 2: ENTER THE MAXIMUM AND ON STORE AT ANY ONE TIME ABOVE LOCATION; INCLUDE UNITS (POLNDS, GALLONS, GALLONS, CUBIC FEET). ILEM 3: ENTER TOTAL YEARLY QUANTITY (USE TABLE 1). ILEM 4: LIST ALL TYPES OF CONTAINERS USED TO STORE THE WASTE (USE MANIFEST) THE MAZARDOUS WASTE CODE USED ON YOUR HAZARDOUS WASTE THE WASTE (USE TABLE 3). ILEM 8: ENTER THE MAZARDOUS WASTE (USE TABLE 3). ILEM 8: ENTER THE MASTE OR ANY INGREDIENT SAND SECRETAL OF EXTREMELY HAZARDOUS (SEE ATTACHED LIST OF EXTREMELY HAZARDOUS SUBSTANCES). ILEM 9: ENTER HAZARDOUS INGREDIENTS AND PERCENTAGE OF CONCENTRALION. ILEM 10: ENTER HE CAS (CHEMICAL ABSTRACE) NAMES FOR EACH HAZARDOUS INGREDIENT (USE YOUR MSDS). | "C" INDICATES A CHANGE IN ILEM 2: ENTER THE MAXIMUM TOTAL YEARLY QUANTITY SED TO STORE THE WASTE (USE SED ON YOUR HAZARDOUS WASTE ILEM 8: CHECK THIS BOX IF ROOUS INGREDIENTS AND |
| A HAZARDOUS<br>C WASTE<br>D MAME  | Waste Corrosive Liquid,<br>Corrosive Material Un<br>(Lab Packed Material)  | sive Lic<br>aterial<br>Materia  | quid, n.o.:<br>Un 1760<br>31) EPA  | n.o.s.<br>1760<br>EPA # D002   | )2  | -  | (9) HAZARDOUS CHEHICAL INGRED: PERCENTAGE OF EACH  | (9)<br>CAL INGREDIENTS &<br>GE OF EACH  | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT   |
| (2)<br>HAXIMIN<br>QUANTITY<br>ANY TINE  | (3)<br>TOTAL<br>YEARLY<br>QUANTITY   | STORAGE<br>TYPES  | (5)<br>TREAT 6.<br>DISPOSAL  | (6)<br>WASTE<br>COOE   | (7)<br>HAZARD<br>CLASS  | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS   |  |   |   |
| 5 gal.  | 5 gal.   | <b>d</b>  | ਬ  | N/A  | 2A  |  | LAB PACKED MATERIALS   | MATERIALS X   |   |
|   |  | -   |  |  |   | *****  | <b>电阻电路电阻电路电路电路电路电路电路电路电路电路电路电路电路电路电路电路电路电</b>   |   |   |
| C WASTE DAME  | Hazardous Wi<br>(Lab Packed  | dous Waste Liquid<br>Packed Material)   | quid, n.o  | 0.s. 09<br>9189<br># P030  | ORM-E   |  | (9) HAZARDOUS CHEMICAL PERCENTAGE  | (9)<br>US CHEMICAL INGREDIENTS &<br>PERCENTAGE OF EACH  | (10)<br>CAS MABERS OF<br>EACH INGREDIENT  |
| (2)<br>MAXIMUN<br>QUANTITY<br>ANY TINE  | (3)<br>TOTAL<br>YEARLY<br>QUANTITY   | STORAGE<br>TYPES  | (5)<br>TREAT 4.<br>DISPOSAL  | (6)<br>WASTE<br>COOE   | (7)<br>HAZARD<br>CLASS  | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS   |  | <b>M M</b> 1  |   |
| 10 gal.   | r 10 gal.  | м   | 63   | N/A  | 10  |  | LAB PACKED M   | MATERIALS   |   |
|   |  |   |  |  |   |  |  | 34  |   |
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CAS NUMBERS OF EACH INGREDIENT CAS MUMBERS OF EACH INGREDIENT CAS NUMBERS OF EACH INGREDIENT 91605 4 Hollywood, Hazardous Waste Storage Area ON UNDERGROUND TANK NUMBERS HAZARDOUS WASTA STOR HAZARDOUS CHEMICAL INGREDIENTS PERCENTAGE OF EACH HAZARDOUS CHEMICAL INGREDIENTS PERCENTAGE OF EACH (9)
HAZARDOUS CHEMICAL INGREDIENTS
PERCENTAGE OF EACH LAB PACKED MATERIALS F024 F0b3 n030 u052 U196 U002 U080 LAB PACKED MATERIALS LAB PACKED MATERIALS 9 EXTREM-ELY HA-ZARDOUS (8) EXTREM-ELY HA-ZARDOUS EXTREM-ELY HA-ZARDOUS (8) EPA # D001 F002 (6) (7)
WASTE HAZARD
CODE CLASS EPA # D001 F005 WASTE HAZARD CODE CLASS WASTE HAZARD CODE CLASS 1 34 ORM-E 34 BUSINESS NAME: Allied-Signal Electrodynamics Division EPA # D008 N/A NA 9189 Waste Flammable Liquid, n.o.s., Flammable Liquid N/A N/A LOCATION OF HAZARDOUS WASTE: COMPLETE ALL ITEMS IN BOX n.o.s. as, n.o.s. UN 1954 (5) TREAT &. DISPOSAL TREAT &. DISPOSAL (5) TREAT &. DISPOSAL a 03 03 WASTE (Lab Packed Material) Waste Compressed Gas, (Lab Packed Material) Lab Packed Material) (4) STORAGE | TYPES (4) STORAGE TYPES (4) STORAGE TYPES 4 2 മ Flammable Gas 355 gal. 130 lb. 5 gal. (3) TOTAL YEARLY QUANTITY QUANTITY **QUANTITY** YEARLY (3) TOTAL YEARLY (3) TOTAL ROOM NAME OR NUMBER: WZ HAZARDOUS **AZARDOUS** WASTE NAME VASTE WASTE 200 gal. MAME gal. MAXIMUM QUANTITY ANY TIME MAXIMUM QUANTITY ANY TIME MAXIMUM QUANTITY ANY TIME 50 1b. വ 

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| PARI C PUMON   | ATTACHEM FOR HAZARDOUS WASTE INVENTORY   | S WASTE I  | NVENTORY  |  |  | (:  | LAFD # 02664  | 026645-001-6   | يو<br>نو  |
|--|--|--|---|--|--|---|---|--|---|
| INSTRUCTIONS: R. COMP. 1. COMP. BOX  | TO SEAD ALL THE INSTRUCTIONS BELOW AND PHOTOCOPY EXTRA COPTION OF SEPARATE FORM FOR EACH BUILDING, OUTDOOR AREA, BOX BELOW TO SPECIFY THE LOCATION OF THE HAZARDOUS WASTES   | RUCTIONS<br>FORM FOR<br>THE LOCA   | BELOW AND<br>EACH BUILD<br>TION OF TH                                       | PHOTOCOF<br>ING, OUI<br>F HAZARE   | Y EXTRA<br>1000R AR<br>10US WAS                            | COPIES OF<br>EA, UNDERGR<br>TES LISTED  | PIES OF THIS FORM BEFORE COMPLETING IT. UNDERGROUND TANK OR ROOM WHERE HAZARDOUS WASTES INVENTORY IS BEING AMENDED. LISTED ON THIS FORM.  | WASTES INVENTOR  | 1   |
|  |  | OMPLETE AI   | COMPLETE ALL ITEMS IN THIS BOX  | N THIS B   | S i.e  | 9   | on ADORESS: 11600 Sherman Way,  | , N. Hollywood,  | od, CA 91605  |
| ROOM NAME OR NUMBER:   | MBER: W2   |  |   |  | - OR UN  | DERGROUND   | ANK NUMBERS Hazardous Waste S   | Storage Area   |   |
| 2. COMPL<br>MAKE<br>FILE<br>3. USE 7   | LETE ITEMS 1-10 F<br>SURE YOU INDICAT<br>BY MARKING THE A<br>THE CODES ON THE<br>RN COMPLETED WAST   | OR EACH A<br>TE WHETHER<br>PPROPRIAT<br>ATTACHED                                   | ADDITION, C<br>THE INFORMATION, C<br>TABLE 10 F<br>TABLE 10 F<br>TABLE 10 F | CHANGE OF SHATION SER ITEM   | R DELET<br>SHOULD (#1).<br>ITEMS 4                         | ION OF HABE ADDED, S AND 7 DEPARTME   | COMPLETE ITEMS 1-10 FOR EACH ADDITION, CHANGE OR DELETION OF HAZARDOUS WASTE GENERATED, STORED OR HANDELED AT THE LOCATION SPECIFIED ABOVE.  FILE BY MARKING THE APPROPRIATE CODE UNDER ITEM #1.  USE THE CODES ON THE ATTACHED TABLE 10 FILL IN ITEMS 4, 5 AND 7. FOR ITEM 6, USE TABLE III ON THE BACK OF YOUR UNIFORM HAZARDOUS WASTE MANIFE:  | ANDELED AT THE<br>DISCLOSURE THA<br>BACK OF YOUR UN  | LOCATION SPECIFIED ABOVE.  T THE FIRE DEPARTMENT HAS ( IFORM HAZARDOUS WASTE MANI   |
| ADDITIONAL INSTETHE INFORMATION QUANTITY HANDELE OR STORE TABLE 1). LIEM HANDELEST (TABLE THE WASTE OR ANY PERCENTAGE OF COMMENTERS) | ADDITIONAL INSTRUCTIONS: ITEM 1: CHECK APPROPRIATE CODE: "A" INDICATES THE INFORMATION THAT WAS REPORTED FOR THAT WASTE, "D" INDICATES A WASTE QUANTITY HANDELED OR STORED AT ANY ONE TIME AT THE ABOVE LOCATION; INCLUDE UNITS (POUNDS, GALLON TABLE 1). ITEM 5: USE ALL TREATMENT AND DISPOSAL METHODS THAT APPLY (UNINEST (TABLE II) ON THE BACK OF THE MANIFEST). ITEM 7: ENTER THE ON THE WASTE OR ANY INGREDIENT IS EXTREMELY HAZARDOUS (SEE ATTACHED LIST ON PERCENTAGE OF CONCENTRATION. ITEM 10: ENTER THE CAS (CHEMICAL ABSTRACT | CHECK AP NO DE THA NO ONE TI LOCATION; HENT AND OF THE NA THE NA TREMELY EM 10: EM | PROPRIATE "I WASTE," ME AT THE INCLUDE UDISPOSAL HAZARDOUS                  | CODE: ". ABOVE LOW INDIA. N. I.Y. (P. M. I.Y.) (P. M. I.Y | A" INDICATES A DCATION OUNDS, (HAT APIER 1 PENER 1 CAL ABG | CATES A WASTE TH<br>WASTE TH<br>INCLUDE<br>SALLONS,<br>OLY (USE<br>THE ONE H<br>IST OF ES | A WASTE THAT HAS BEEN DELETED. ENTER THE HAZARDOUS WASTE NAME. THE TOTAL YEARINGS A CHANGE IN A WASTE THAT HAS BEEN DELETED. ENTER THE HAZARDOUS WASTE NAME. THE ACTION OF THE WASTEN WASTE NAME. THE TOTAL YEARLY QUANTITY. GALLONS, CUBIC FEET). THE MASTEN OF CONTAINERS USED TO STORE THE WASTE (USE TABLE 4). THE ALL TYPES OF CONTAINERS USED ON YOUR HAZARDOUS WASTE THE ONE HAZARDOUS WASTE (USE TABLE 4). THE APPLIES TO THE WASTE (USE TABLE 3). THEM BY CHECK THIS BOX IF LIST OF EXTREMELY HAZARDOUS SUBSTANCES). THEM 9: ENTER HAZARDOUS INCREDIENTS AND | STING INVENTORY COUS WASTE NAME OF CONTAINERS US WASTE CODE UF E (USE TABLE 3) E (USE TABLE 3) E (USE TABLE 3) | "C" INDICATES A CHANGE II IEM 2: ENTER THE MAXIM RETOTAL YEARLY QUANTITY USED TO STORE THE WASTE (U SED ON YOUR HAZARDOUS WASTE ON YOUR HAZARDOUS WASTE TEM 8: CHECK THIS BOX 1 |
| A HAZARDOUS<br>C WASTE<br>D WANE   | RQ Hazardous Waste Liquid,<br>(Waste Sodium Bichromate/N<br>EPA #  | Waste<br>Im Bichr  | Waste Liquid, n.o.s<br>Bichromáte/Nitric<br>EPA # DOO7                      | n.o.s.<br>Nitric A   | s. ORM-E<br>Acid) NA                                       | M-E<br>NA 9189  | (9) HAZARDOUS CHEMICAL INGREDIENTS PERCENTAGE OF EACH   | 3 5  | CAS MERGES OF EACH INGREDIENT   |
| (2)<br>HAXIMUH<br>QUANTITY<br>ANY TINE   | (3)<br>TOTAL<br>YEARLY<br>OUANTITY   | STORAGE<br>TYPES   | 28  | (HE)   | (7)<br>HAZARD<br>CLASS                                     | (8)<br>EXTREMELY HA-  | water   | balancez   | 10588-01-9  |
| 165 gal.   | 165 gal.   | В  | 05  | 723  | 10   | ZARDOUS   | nitric acid   | 3-5 %  | 7697-37-2   |
|  |  |  |   |  |  |   |   | **   |   |
| (1)<br>A HAZABIOUE   |  |  |   |  |  |   | (1) HAZABINEK DO HAZAN OLI HILL HILL HILL HILL HILL HILL HILL   |  |   |
|  | (Waste Tin F   | waste<br>Juorobo   | <b>,</b> *  | n.o.s.<br>N<br>D006  | . ORM-E<br>NA 9189   | ш<br><u>-</u>   | MAZARDOUS CHEMICAL INGREDIENTS PERCENTAGE OF EACH tin fluoroborate  | # C Y  | (10)<br>CAS NUMBERS OF<br>EACH INGREDIENT   |
| (2)<br>MAXIMUH<br>QUANTITY<br>ANY TINE   | (3)<br>TOTAL<br>YEARLY<br>QUANTITY   | (4)<br>STORAGE<br>TYPES  | (5)<br>TREAT &.<br>DISPOSAL   | (6)<br>WASTE I   | (7)<br>HAZARO<br>CLASS                                     | (8)<br>EXTREM-<br>ELY HA-   | solids  | 10-15  |   |
| 55 gal.  | i 55 gal.  | g  | 70  | 722  | 10   |   |   | Da lance   |   |
|  |  |  |   |  |  |   |   | * *  |   |
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|                                   | 11600 Sherman Way, N. Hollywood, CA 91605 Hazardous Waste Storage Area       |  | CAS MARBERS OF EACH INGREDIENT                        | 100 x            | * *                                    |         | N X |        | (10) CAS MUMBERS OF EACH INGREDIENT 5-10 x                         | 85-91 x<br>4-5 x                       | *              | . 在我们的现在分词,我们们的现在分词,我们们的现在分词,我们们的现在分词,我们们们的现在分词,我们们的现在分词,我们们的现在分词,我们们的现在分词,我们们们的现在分词,我们们们们的现在分词,我们们们们的现在分词,我们们们们们的现在分词,我们们们们的现在分词,我们们们们们们的现在分词,我们们们们们们们们们们们们们们们们们们们们们们们们们可以可以可以可以可以可以可以 | CAS N<br>EACH<br>60 x 7738-94-                                 | 34 34                                  |                             | **  |   |  |                            |                             |    |      |           |                       |    |  |   |
|-----------------------------------|--|--|---|------------------|--|---------|-----|--------|--|--|----------------|---|--|--|-----------------------------|-----|---|--|----------------------------|-----------------------------|----|------|-----------|-----------------------|----|--|---|
|                                   | BUILDING NAME, OUTDOOR AREA, ON THE STORY WAS A HAZARDOUS WASTE Storage Area | 医医检查检查检查检查检查检查检查检查检查检查检查检查检查检查检查检验检验检验检验 | (9) MAZARDOUS CHEMICAL INGREDIENTS PERCENTAGE OF EACH | sodium hydroxide |  |         |     |        | HAZARDOUS CHEMICAL INGREDIENTS PERCENTAGE OF EACH Nickel sulfamate | water<br>sodium hydroxide              |                | 在我也在我也也也在我们也有我们也是我们的我们也是我们的我们也是我们的我们的我们的我们的我们的我们的我们的我们的我们的我们的我们的我们的我们的我   | HAZARDOUS CHEMICAL INGREDIENTS PERCENIAGE OF EACH Chromic acid | water                                  |                             |     |   |  |                            |                             |    |      |           |                       |    |  |   |
|                                   | ING NAME,<br>DERGROUND   | *****                                    |   | D002             | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS   |         |     | ****   | 0RM-E<br>9   | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS   |                | ****  |  | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS   |                             |     |   |  |                            |                             |    |      |           |                       |    |  |   |
|                                   | BUILD<br>OR UNI  | ***                                      |   | EPA # D(         | (6) (7) WASTE HAZARD CODE CLASS        | 2A      |     | *****  | s. OF<br>A 9189  | (7)<br>CLASS                           | 1D             | ****  | 1755   | (7)<br>E HAZARD<br>CLASS               | 2A                          |     | - |  |                            |                             |    |      |           |                       |    |  |   |
| 1 BOX                             | Division<br>BU<br>OR   | ****                                     | n.o.s.<br>759   | Ξ                |  | 141     |     |        | n.o.s<br>NA  | (6)<br>WASTE<br>CODE                   | 726            | *****   | Solution<br>UN<br>A # FOO6                                     | (6)<br>WASTE                           | 791                         |     | _ |  |                            |                             |    |      |           |                       |    |  |   |
| COMPLETE ALL ITEMS IN BOX         | vnamics  | ****                                     |   | Solid,<br>UN 1   | Solid,<br>UN 1                         |         |     | , n.o. | <u>^</u>   | •                                      | Solid,<br>UN 1 | Solid,<br>UN 1  | Solid,<br>UN 1   | Solid,<br>UN 1                         | (5)<br>TREAT &.<br>DISPOSAL | 27_ |   |  | Liquid,<br>mate)<br># F006 | (5)<br>TREAT &.<br>DISPOSAL | 05 | **** | Acid Solu | (5)<br>TREAT<br>01SPO | 05 |  | _ |
| LETE ALL                          | Electrodynamics  |  | Corrosive<br>Material                                 | n Hydro          | (4)<br>STORAGE<br>TYPES                | B       |     | ***    | Waste Liqui<br>  Sulfamate)<br>  EPA # FOC                         | (4)<br>STORAGE<br>TYPES                | 8              | ****  | Chromic Ac<br>Material   | (4)<br>STORAGE<br>TYPES                | ت                           |     |   |  |                            |                             |    |      |           |                       |    |  |   |
| LOCATION OF HAZARDOUS WASTE: COMP | BUSINESS NAME: Allied-Signal El  |  | RQ Waste Corrosive<br>Corrósive Material              | (Waste Sodiur    | (3)<br>TOTAL<br>YEARLY<br>QUANTITY     | 500 1b. | -4  |        | RQ Hazardous<br>(Waste Nickel                                      | (3)<br>101AL<br>YEARLY<br>QUANTITY     | 210 gal.       | 在我们的现在分词 化对抗性 医克拉特氏 医克拉氏性 医克拉氏性 医克拉氏性 医克拉氏性 医克拉氏性 医克拉氏性 医克拉氏性 医克拉氏性 医克拉氏性 医克拉氏性 医克拉氏性 医克拉氏性 计记录器 计记录器 计记录器 计记录器 计记录器 计记录器 计记录器 计记录器   | RQ Waste Chr<br>Corrósive Ma                                   | (3)<br>TOTAL<br>YEARLY<br>QUANTITY     | 275 gal.                    |     |   |  |                            |                             |    |      |           |                       |    |  |   |
| OF HAZARD                         | BUSINESS NAME: Allie<br>ROOM NAME OR NUMBER:                                 | *********                                | (1)<br>HAZARDOUS<br>WASTE                             | NAME             | (2)<br>MAXIMUM<br>QUANTITY<br>ANY TIME | 350 lb. |     |        | (1) HAZARDOUS WASTE NAME   | (2)<br>MAXIMIH<br>QUANTITY<br>ANY TIME | 110 gal.       | *****   | (1) HAZARDOUS WASTE NAME                                       | (2)<br>MAXIMUM<br>QUANTITY<br>ANY TIME | 275 gal.                    |     |   |  |                            |                             |    |      |           |                       |    |  |   |

DATE

DATA ENTRY INIT

DATA ENTRY 10

DATE

INSP. INIT

FOR OFFICE USE ONLY: INSP. 10\_

|  | AN THE ANDRESS  | A WASIE IN  | INVENIORY  |  |                                 |   |   | LAFO # 026645-001-6   | , OF  |
|--|---|---|--|--|---------------------------------|---|---|---|---|
| INSTRUCTIONS: RE 1. COMPL BOX B  | 4S: READ ALL THE INSTRUCTIONS BELOW AND PHOTOCOPY EXTRA COP COMPLETE A SEPARATE FORM FOR EACH BUILDING, OUTDOOR AREA, BOX BELOW TO SPECIFY THE LOCATION OF THE HAZARDOUS WASTES | RUCTIONS E<br>FORM FOR E<br>THE LOCAT               | SELOW AND I  | PHOTOCOP<br>ING, OUT                                     | Y EXTRA<br>DOOR ARI<br>JUS WASI | COPIES OF   | UNDERGROUND TANK OR ILISTED ON THIS FORM.   | COPIES OF THIS FORM BEFORE COMPLETING IT.<br>EA, UNDERGROUND TANK OR ROOM WHERE HAZARDOUS WASTES INVENTORY IS BEING AHENDED<br>IES LISTED ON THIS FORM.   | EING AMENDED. USE THE   |
| LOCATION OF HAZARDOUS WASTE:   | 1   | COMPLETE ALL ITEMS IN THIS BOX                      | L ITEMS IA   | THIS BK  | ж.                              |   | a and the size of |   |   |
| BUSINESS NAME:   | Allied-Signal   | 1   | Electrodynamics  |  | Division                        |   | ADDRESS:  | 11600 Sherman Way. N. Hollywood   | CA 91605  |
| ROOM NAME OR NUMBER:   | BER: W3   |   |  |  | BUILDI<br>OR UND                | ING NAME,<br>PERGROUND  | LDING NAME, OUTDOOR AREA, UNDERGROUND TANK NUMBERS  | rage Tanks  | la  |
|  | E ITEMS 1-10<br>RE YOU INDICA   | FOR EACH A  ATE WHETHER  APPROPRIAT                 | EACH ADDITION, C<br>METHER THE INFOR<br>TOPRIATE CODE UND    | CHANGE OR<br>RHATION SE                                  | SHOULD B                        | ON OF HAZ   | ARDOUS WASTE GE   | AT THE LURE THAT  | ON SPECIFIED ABOVE.<br>FIRE DEPARTMENT HAS ON   |
| 3. USE THE<br>4. RETURN (  | USE THE CODES ON THE ATTACHED TABLE TO FILL<br>RETURN COMPLETED WASTE INVENTORY AMENDMENT   | ATTACHED<br>FE INVENTO                              | TABLE TO F<br>RY AMENDME                                     | TLL IN   | ITEMS 4.                        | S AND 7.<br>DEPARTHEN   | FOR ITEM 6, L   | . IN ITEMS 4, 5 AND 7. FOR ITEM 6, USE TABLE III ON THE BACK OF YOUR UNIFORM HAZARDOUS WASTE MANIFE TO THE FIRE DEPARTMENT ALONG WITH PART A AND PART B.  | HAZARDOUS WASTE MANIFE  |
| ADDITIONAL INSTRICT THE INFORMATION OCURNITY HANDELED OR STORE TABLE 1). ILEM 5 MAINEST (TABLE IN THE FAMILE OF STORE TABLE IN TA | MATIONS: ITEM INTERPREPORTE OR STORED AT A STORED AT A STORED AT A STORED AT A STORED AT A STORE A STOREM IT ON THE BACK  | CHECK AP ED FOR THA NY ONE TIL LOCATION; HENT AND I | PROPRIATE T WASTE, " ME AT THE INCLUDE U DISPOSAL M 41FEST). | CODE: "A<br>D" INDIC<br>ABOVE LO<br>NITS (PO<br>ETHODS T | ATES A CATION; CANOS, GAMA APP  | ATES A VA<br>WASTE THA<br>INCLUDE I<br>ALLONS, CI<br>LY (USE TV | STE THAT IS BEIN THAS BEEN DELE UNITS (POUNDS, JEIC FEET). ITEM   | ADDITIONAL INSTRUCTIONS: ITEM 1: CHECK APPROPRIATE CODE: "A" INDICATES A WASTE THAT IS BEING ADDED TO YOUR EXISTING INVENTORY, "C" INDICATES A CHANGE IN THE INFORMATION THAT WAS REPORTED FOR THAT WAS REPORTED FOR THAT WAS REPORTED OR STORED AT ANY ONE TIME AT THE ABOVE LOCATION; INCLUDE UNITS (POUNDS, GALLONS, CUBIC FEET). ITEM 3: ENTER TOTAL YEARLY QUANTITY HANDELED OR STORED AT THE ABOVE LOCATION; INCLUDE UNITS (POUNDS, CUBIC FEET). ITEM 4: LIST ALL TYPES OF CONTAINERS USED TO STORE THE WASTE (USE TABLE 1). ITEM 5: USE ALL TREATMENT AND DISPOSAL METHODS THAT APPLY (USE TABLE 4). ITEM 6: ENTER THE HAZARDOUS WASTE CODE USED ON YOUR HAZARDOUS WASTE | INDICATES A CHANGE IN 4.2; ENTER THE MAXIMUM VEARLY QUANTITY  STORE THE WASTE (USE YOUR HAZARDOUS WASTE |
| PERCENTAGE OF CON  | INGREDIENT IS E<br>CENTRATION, IT   | EM 10: EN   | HAZARDOUS  | SEE ATT  | ACHED L                         | IST OF EXTERNING  | TREMELY HAZARDO   | AFFLIES TO THE WASTE (USE TABLE 3). ITE<br>US SUBSTANCES). ITEM 9: ENTER HAZARDOUS<br>R EACH HAZARDOUS INGREDIENT (USE YOUR MSD   | <u>1 8;</u> CHECK THIS BOX IF<br>INGREDIENTS AND<br>3).   |
| C — HAZARDOUS C — WASTE  | Hazardous Waste<br>(Waste Coolant)  | ste Liqu<br>nt)                                     | Liquid, n, 0,s.  | s. ORM-E   | FE NA                           | 4 9189  | HAZARDOUS   | (9) HAZARDOUS CHEMICAL INGREDIENTS & PERCENTAGE OF EACH   | (10)<br>CAS MUMBERS OF<br>EACH INGREDIENT   |
| (2)<br>MAXIMM<br>QUANTITY<br>ANY TINE  | (3)<br>TOTAL<br>YEARLY<br>QUANTITY  | (4)<br>STORAGE<br>TYPES                             | (5)<br>TREAT &.<br>DISPOSAL                                  | (6)<br>WASTE (000E                                       | (7)<br>HAZARD<br>CLASS          | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS                            | water soluble<br>lubricating o  | ble oils g oils   |   |
| 3,000 gal.   | 18,000 gal  | 4   | 20   | 221  | 110                             |   |   | # <b>24</b>   |   |
|  |   |   |  |  |                                 |   |   | * * * * * * * * * * * * * * * * * * *   |   |
| A HAZARDOUS  |   |   |  |  |                                 | 6<br>6<br>6<br>8  | (9) HAZARDOUS CHEMICAL  | A HAZARDOUS  C WASTE WASTE  | (10)  |
| 0 — NWE  | (6)   |   |  |  |                                 |   | 9E#   | PERCENTAGE OF EACH  | EACH INGREDIENT   |
| HAXIHUH<br>QUANTITY<br>ANY TIME  | (3)<br>TOTAL<br>YEARLY<br>QUANTITY  | (4)<br>STORAGE<br>TYPES                             | (5)<br>TREAT 4.<br>DISPOSAL                                  | (6)<br>WASTE H<br>CODE C                                 | (7)<br>HAZARD<br>CLASS          | (8)<br>EXTREM-<br>ELY HA-<br>ZARDOUS                            |   |   |   |
|  | ·&  |   |  |  |                                 |   |   |   |   |
|  | ***************************************   | T   |  |  | 1                               |   |   | 74  |   |
| TOR OFFICE USE ONLY:   | Y: INSP. 10_  |   | INSP.  | P. INIT  |                                 | DATE  |   | DATA ENTRY ID DATA ENTRY INIT   | DATE  |

# LEGEND FOR SITE MAP NOTES

Plating & Processing Department - chemicals in process tanks. Hazardous Material Storage - no reportable quantities. Hazardous Material Storage - no reportable quantities. Hazardous Material Storage - no reportable quantities. Site Map for Stairway and Building "A" Access Site Map for Stairway and Building "B" Access Site Map for Stairway and Building "C" Access Waste Coolant (Recyclable) Storage Tanks Cutting Oil and Coolant Storage Area Waste Oil (Recyclable) Storage Tank Site Map for Building "S" Access Shipping and Receiving Department Site Map for Building "F" Access Trichloroethane Storage Tank Pressurized Cylinder Storage First Floor Only Second & Third Floor Only Hazardous Waste Storage Area Flammable Storage Area Acid Room

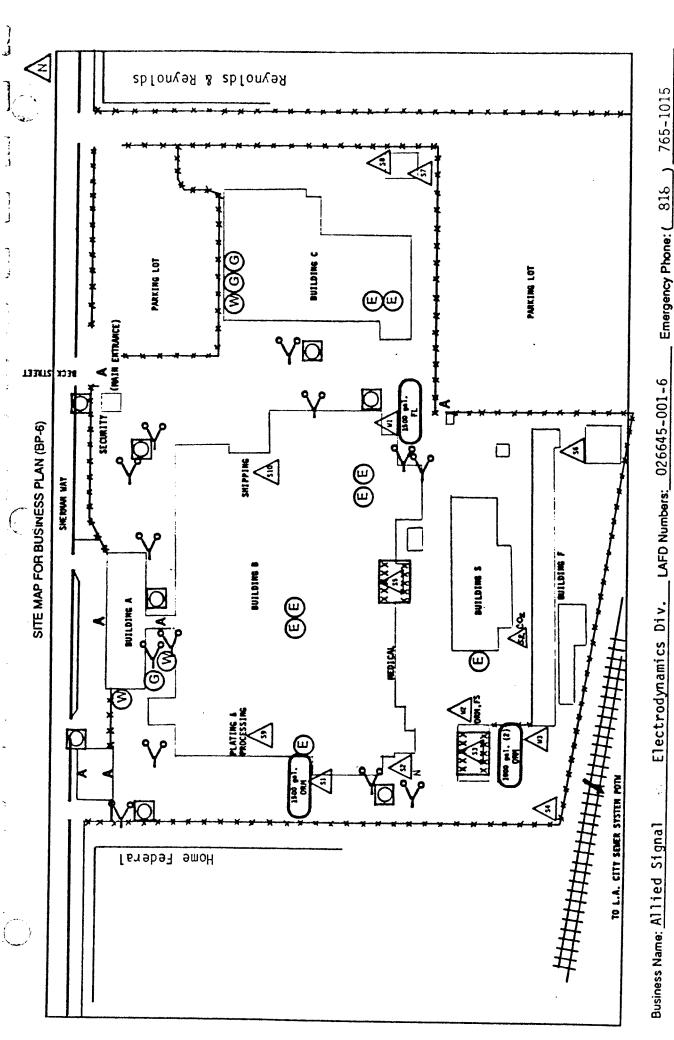
Electrodynamics Div. LAFD Numbers: 026645-001-6 Business Name: Allied Signal

Emergency Phone: (818) 765-1015 Business Adress (Site Address): <u>11600 Sherman Way No. Hollywood, CA 91605-5887</u> Facility Unit: <u>Site Map - Legend of Notes</u>

Main Business Activity: Aircraft Parts Manufacturing

Scale of Map: 1 in .

# Date: 2/1/91



Business Adress (Site Address): 11600 Sherman Way No. Hollywood, CA 91605-5887 Facility Unit: Site Map - All Buildings Main Business Activity: Aircraft Parts Manufacturing

(KEY TO SYMBOLS AND ABBREVIATIONS ON THE FRONT OF THIS FORM)

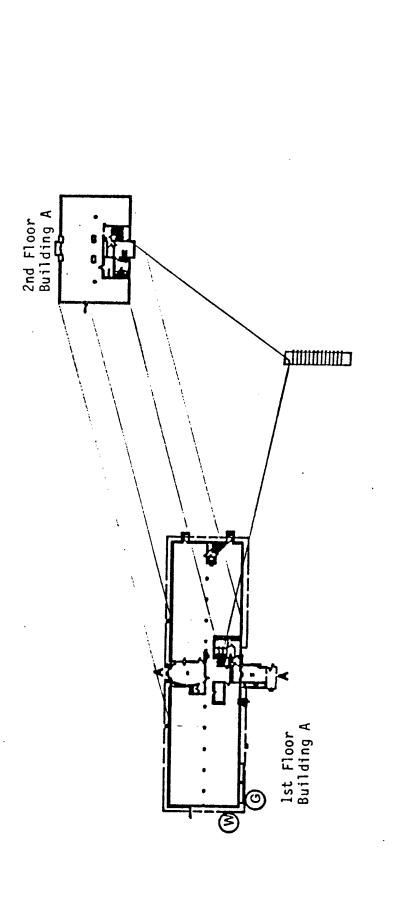
ft Date: 2/1/91

Scale of Map: 1 in = 128



Grace

-



Electrodynamics Div. LAFD Numbers: 026645-001-6 Business Name: Allied Signal

Emergency Phone: (818

Business Adress (Site Address): 11600 Sherman Way No. Hollywood, CA 91605-5887 Facility Unit: Building A

Main Business Activity: Aircraft Parts Manufacturing

64 Scale of Map: 1 in -

n Date: 2/1/91

765-1015

1 4 3

Emergency Phone: (818) 765-1015 Electrodynamics Div. LAFD Numbers: 026645-001-6 Business Name: Allied Signal

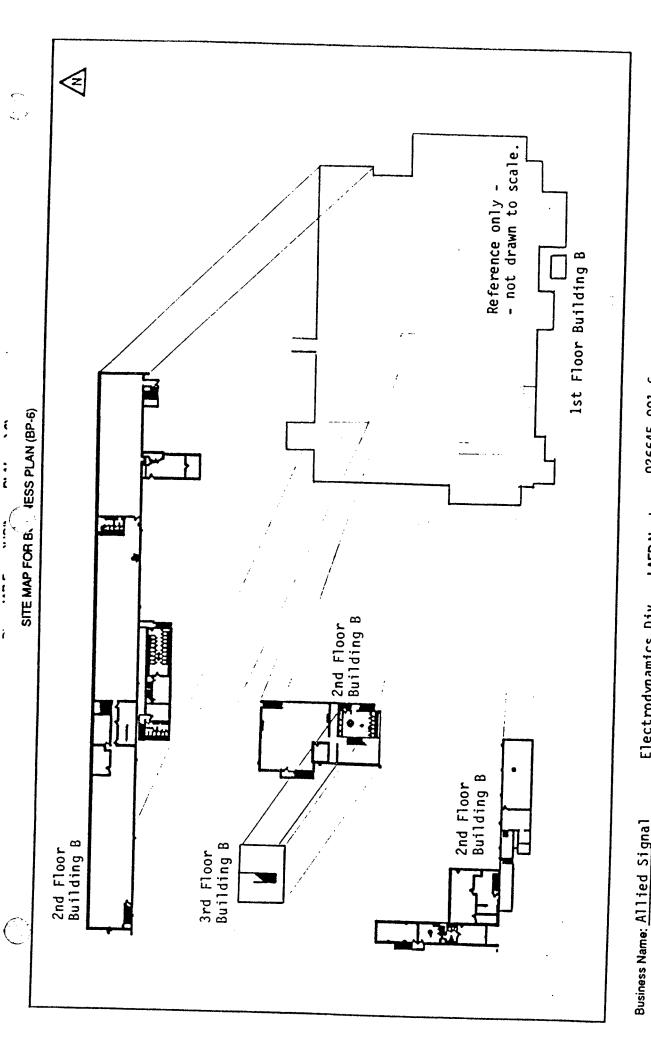
⋖

Business Adress (Site Address): 11600 Sherman Way No. Hollywood, CA 91605-5887 Facility Unit: Building B - Ground Floor

Main Business Activity: Aircraft Parts Manufacturing

Scale of Map: 1 in = 64

64 # Date: 2/1/91



Emergency Phone: (818 Business Adress (Site Address): 11600 Sherman Way No. Hollywood, CA 91605-5887 Facility Unit: Building B - Upstairs LAFD Numbers: 026645-001-6 Electrodynamics Div.

Main Business Activity: Aircraft Parts Manufacturing

64 Scale of Map: 1 in =\_\_

SS PLAN (BP-6)

SITE MAP FOR BU

Business Name: Allied Signal

LAFD Numbers: 026645-001-6 Electrodynamics Div.

Emergency Phone: (818) 765-1015

Business Adress (Site Address): 11600 Sherman Way No. Hollywood, CA 91605-5887 Facility Unit: Building A Main Business Activity: Aircraft Parts Manufacturing

64 Scale of Map: 1 in ..

# Date: 2/1/91

Ex And

(B) (10) (11)

SITE MAP FOR BU SS PLAN (BP-6)

Emergency Phone: (818) 765-1015 Electrodynamics Div. LAFD Numbers: 026645-001-6 Business Name: Allied Signal

Business Adress (Site Address): 11600 Sherman Way No. Hollywood, CA 91605-5887 Facility Unit: Buildings S & F

Main Business Activity: Aircraft Parts Manufacturing

64 Scale of Map: 1 in .

\_ ft Date: 2/1/91



# ALLIED-SIGNAL AEROSPACE COMPANY

Bendix Electrodynamics Division

Submitted to:

South Coast Air Quality Management District 9150 Flair Drive El Monte, CA 91731

August 10, 1989

Submitted by:

Allied-Signal Aerospace Company Bendix Electrodynamics Division 11600 Sherman Way North Hollywood, CA 91605-5887

In Consultation With:

Dynamac Corporation Westlake Village, California

041010



### Submitted to:

South Coast Air Quality Management District 9150 Flair Drive El Monte, CA 91731

August 10, 1989

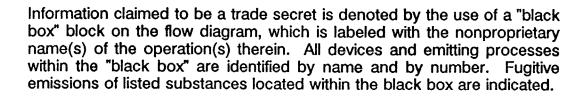
Submitted by:

Allied-Signal Aerospace Company Bendix Electrodynamics Division 11600 Sherman Way North Hollywood, CA 91605-5887

In Consultation With:

Dynamac Corporation 5701 Lindero Canyon Rd., Ste. 1-201 Westlake Village, CA 91362

## TRADE SECRETS



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### **ABBREVIATIONS**



### ABBREVIATIONS USED IN QUANTIFYING AIR RELEASES

MHE Maximum Hourly Emissions

EF (Substance) Emission Factor

AAE Average Annual Emissions

HOP Daily Hours of Operation

DOP Days of Operation Per Year

%S Mass of Substance To Be Quantified/Total Mass of Mixture

SQFT Square Feet

CO Additive Concentration (ppmw)

ppmw parts per million by weight

EET Emission Estimation Technique

MSDS Material Safety Data Sheet

DO Drift Fraction
WR Water Flow

VOC Volatile Organics

cfm or CFM Cubic Feet per Minute

gr Grains

### ADDITIONAL ABBREVIATIONS AND ACRONYMS

CAS No. Chemical Abstract Service Number

ARB Air Resources Board

CARB California Air Resources Board
AQMD Air Quality Management District

APCD Air Pollution Control District

AB2588 Assembly Bill 2588

SCM Standard Cubic Meters

M/S Meters Per Second

### **DEFINITIONS**

<u>Air emission</u> (Also referred to as "air release," "emission," or "release") - Any activity that may cause the issuance of air contaminants or disposing of a substance in the ambient air.

<u>Device</u> - Any article, machine, equipment, or other contrivance (whether or not operated under a permit from an air pollution control district or air quality management district) that may cause the emission of a listed substance.

Emission Inventory Plan (Also referred to as "inventory plan" or "plan") - The emission inventory plan required by Health and Safety Code Sections 44340 and 44342.

<u>Emitting process</u> - Any fugitive source or any operation within a device that involves the manufacture, formulation, use, or release of one or more of the listed substances, when the substance is present in any capacity whatsoever, including but not limited to an ingredient, product, auxiliary, or catalyst.

<u>Fugitive emissions</u> - Those emissions that do not pass through a stack, chimney, vent, or other functionally equivalent opening.

<u>List of substances</u> - The list of chemical substances that may pose a threat to public health when present in the ambient air as set forth in Appendix A of Title 17 of the California Code of Regulations, Sections 90700-70704, and in Appendices A-I and A-II of this regulation.

Material Safety Data Sheet (MSDS) - Printed material concerning a hazardous substance that is prepared by manufacturers and importers in accordance with Section 5194(g) of Title 8, California Code of Regulations, "Hazard Communication."

<u>Source or point of release</u> - Location of a facility activity, device, or emitting process, including locations of fugitive emissions, that may be associated with air emissions of a listed substance or other air pollutant; or the location of any substance that may be associated with emissions of a listed substance or other air pollutant.



### **PREFACE**

California concerns over toxic air pollutants beyond the criteria pollutants that are currently regulated have resulted in legislation that is intended to define and measure the magnitude of the air toxics problem. The Air Toxics "Hot Spots" Information and Assessment Act of 1987 (introduced as Assembly Bill 2588 and approved by the Governor of California on September 27, 1987) requires operators of facilities that emit listed air toxics or criteria pollutants in excess of specified amounts to prepare and submit to the Air Quality Management District an emission inventory plan for identifying and quantifying the toxic emissions from the facility. It further requires the implementation of the inventory plan and reporting thereon to the district. It also provides for preparation and submittal of health risk assessments by operators of high-priority category facilities and directs the State Board to utilize the reports and health risk assessments for the purposes of identifying and controlling toxic air contaminants.

Specific authority for this regulation is found in sections 39600, 39601, and 44342 of the California Health and Safety Code. The emission inventory plans required of certain operators are delineated in sections 44340 and 44342 of the Health and Safety Code.

# I. INTRODUCTION AND SUMMARY

This document presents the Emission Inventory Plan for the Bendix Electrodynamics Division of Allied-Signal Aerospace Company, a manufacturing and testing facility in North Hollywood, California. The plan is being submitted to the South Coast Air Quality Management District to comply with Health and Safety Code Sections 44340 and 44342.

This Emission Inventory Plan identifies the devices and processes that are sources of toxic emissions at the facility and presents flow diagrams displaying the devices and toxic emittents for each process. The plan further identifies the estimation technique that will be used to quantify each toxic substance released. Also, test protocols are developed for each source where source testing is required.

This plan is presented as follows:

Chapter I, Introduction and Summary, provides an overview of the contents of the plan.

Chapter II, General Process Description, defines the basic work that the facility performs.

Chapter III, Processes and Quantification Methods, comprises the bulk of this plan. A summary table is presented first, to provide the reader with a quick reference to the substances emitted. Then each of the processes is described followed by all of the devices used in that process, the method of quantification to be used, and accompanying flow diagrams for each device.

Chapter IV, References, provides a list of publications used to quantify the emissions.



# II. GENERAL PROCESS DESCRIPTION

The Bendix Electrodynamics Division of Allied-Signal manufactures and tests hydraulic actuators for use in the aerospace industry.

# III. FLOW DIAGRAMS AND QUANTIFICATION METHODS

Four general processes at this facility involve air emissions: Heat Treating and Plating (Section A), Hydraulic Assembly (Section B), Skydrol and Engineering (Section C), and Electronic Assembly (Section D). These processes involve several devices to meet the job requirements. Each section in this chapter includes flow diagrams that identify the air emittents from these devices followed by the method of quantification to be used for each.

The table on the following page summarizes the stack and fugitive emissions from the facility, including the CAS or ID Numbers of each substance, and identifies the devices from which they are emitted.



### STACK AND FUGITIVE SOURCE EMISSIONS FROM THE ALLIED-SIGNAL COMPANY, NORTH HOLLYWOOD, CALIFORNIA

| Substance Emitted | CAS/ID No. | Device ID No.*    |
|-------------------|------------|-------------------|
| Chromium          | 18540299   | 1, 2, 3, 4, 5, 6  |
| Hydrochloric Acid | 7647010    | 7                 |
| Copper            | 7440508    | 8                 |
| Methyl Chloroform | 71556      | 9, 15, 16, 19, 21 |
| Fluorocarbons     | 1105       | 10, 14, 18, 19    |
| Silica            | 1175       | 11                |
| Chlorine          | 7782505    | 12, 17            |
| Benzene           | 71432      | 13                |
| Formaldehyde      | 50000      | 13                |
| Toluene           | 108883     | 13, 20            |
| Lead              | 7439921    | 22                |
| Cadmium           | 7440439    | 23                |
|                   |            |                   |

\* Device ID Nos. 1-12, 23 (Heat Treating and Plating)
Nos. 13-16 (Hydraulic Assembly)
Nos. 17-18 (Skydrol and Engineering)
Nos. 19-22 (Electronic Assembly)



# **PROCESS**

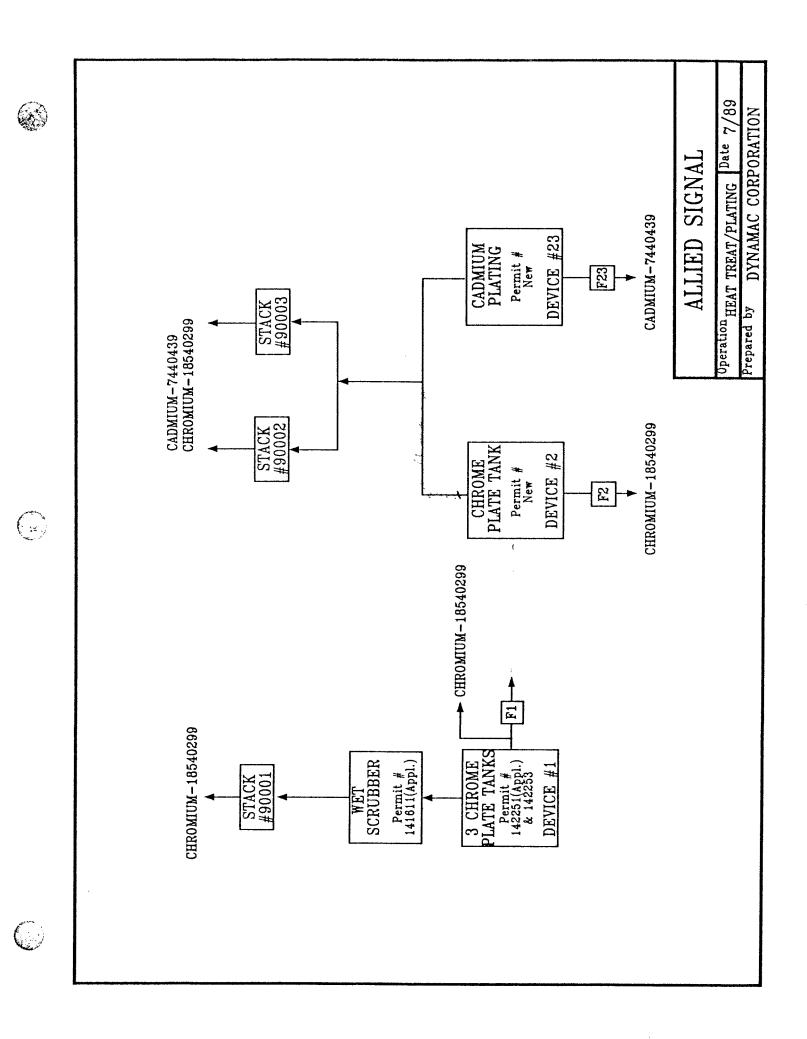
# A. HEAT TREATING AND PLATING

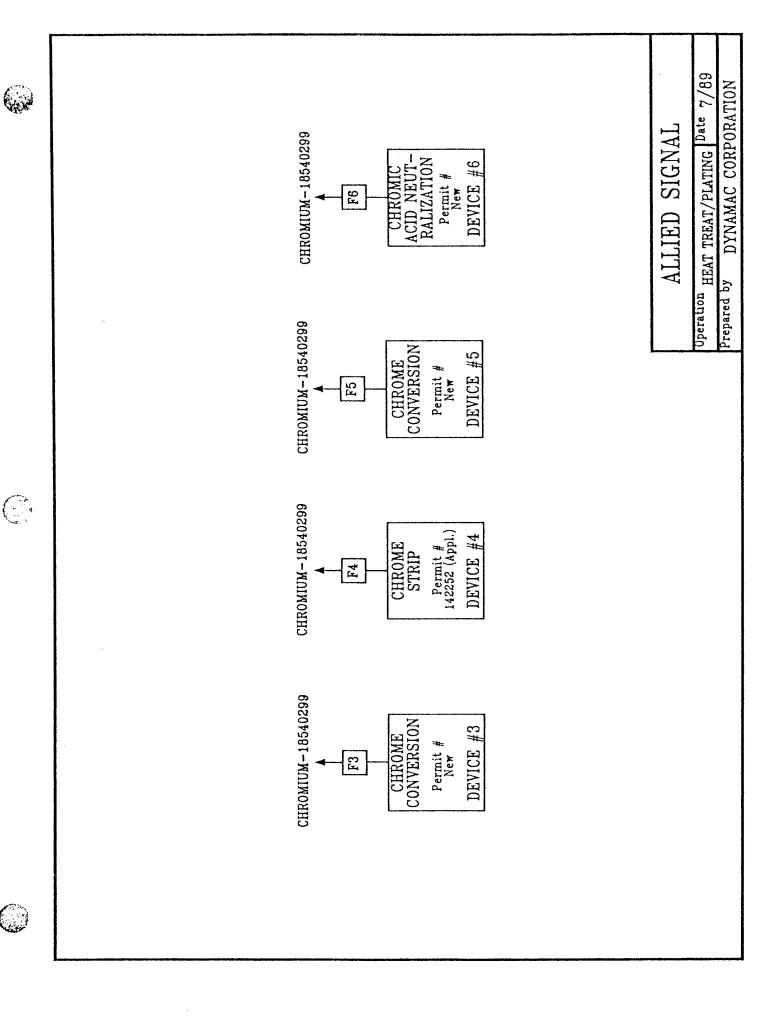
<u>Process Description</u>: The plating shop consists of (1) tanks for plating Chrome and Copper, and (2) related acid and other process tanks. Heat-treating emissions include degreasing and cooling towers.

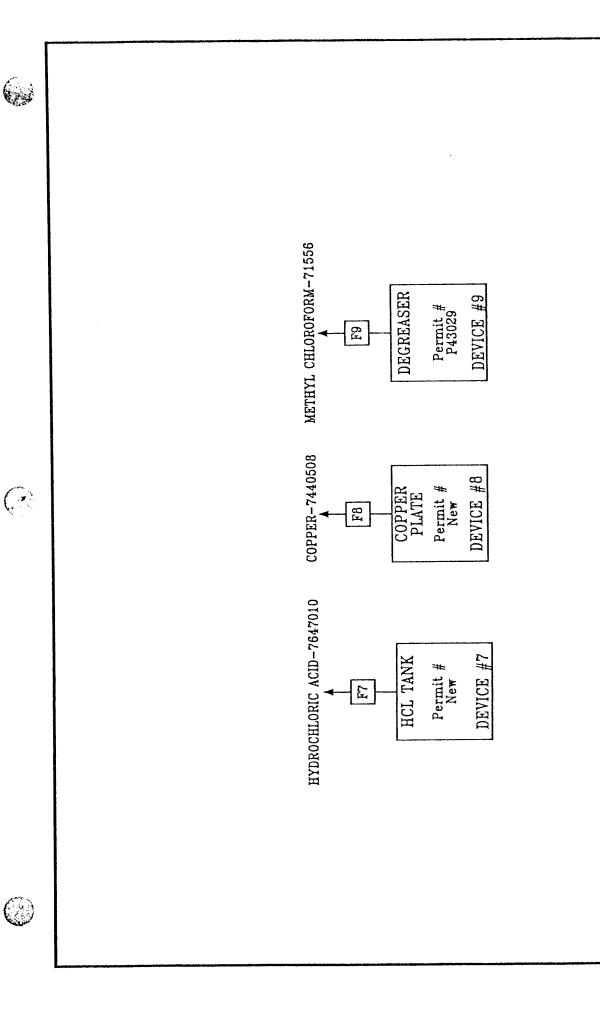
### **DEVICES USED IN THIS PROCESS**

| ID No. | Name                         |
|--------|------------------------------|
| 1      | Chrome Plating Tanks (3)     |
| 2      | Chrome Plating Tank          |
| 3      | Chrome Conversion            |
| 4      | Chrome Strip                 |
| 5      | Chrome Conversion (Douglas)  |
| 6      | Chromic Acid Neutralization  |
| 7      | HCI Tank                     |
| 8      | Copper Plate                 |
| 9      | Degreaser                    |
| 10     | Vapor Degreaser              |
| 11     | Glass Bead Blast             |
| 12     | Cooling Towers (2)           |
| 23     | Cadmium Plating <sup>*</sup> |

<sup>\*</sup> Included on Flow Diagram with Devices 1 and 2 (on following page).

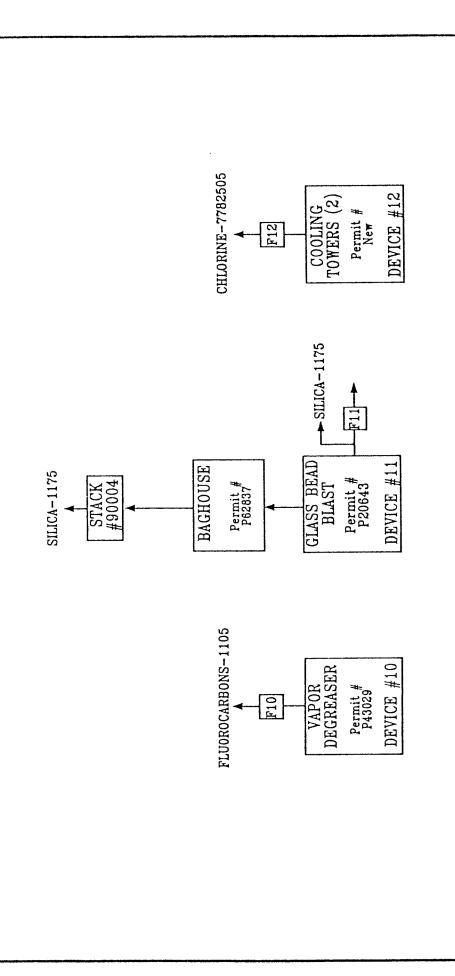






# ALLIED SIGNAL

Operation HEAT TREAT/PLATING Date 7/89
Prepared by DYNAMAC CORPORATION



# ALLIED SIGNAL

Operation HEAT TREAT/PLATING Date 7/89 Prepared by

DYNAMAC CORPORATION

# DEVICE NAME: CHROME PLATING TANKS (3)

Device ID: 1

Permit ID: 142251, 142253 (applied for)

Control Type: Wet Scrubber

Control Permit ID: 141611 (applied for)

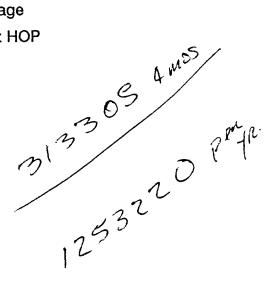
Stack ID: 90001

Substance Emitted & CAS No.: Chromium 18540299

Quantification Method: EPA Emission Factor (Ref. 1)

EF = 0.0106 lb/hr/amp

MHE = EF x amp usage





# DEVICE NAME: CHROME PLATING TANK

Device ID: 2

Permit ID: New

Control Equipment Code: N/A

Control Type: N/A

Control Permit ID:

Stack ID: 90002, 90003

Substance Emitted & CAS No.: Chromium 18540299

Quantification Method: EPA Emission Factor (Ref. 1)

EF = 0.0106 lb/hr/amp

MHE = EF x amp usage

 $AAE = MHE \times DOP \times HOP$ 

142961 June 5 37 18 44 pper YR

### **DEVICE NAME: CADMIUM PLATING**

Device ID: 23

Permit ID: New

Control Equipment Code: 000

Control Type: N/A

Control Permit ID: N/A

Stack ID: 90002, 90003

Substance Emitted & CAS No.: Cadmium 7440439

Quantification Method: EPA Emission Factor (Ref. 1)

EF = 0.023 lb/hr/amp

 $MHE = EF \times amp usage$ 

 $AAE = MHE \times HOP \times DOP$ 

300 dje gr 4 hrday.

24524 225,500

### **DEVICE NAME: CHROME CONVERSION**

Device ID: 3

Permit ID: New

Control Equipment Code: N/A

Control Type: N/A

Control Permit ID: N/A

Stack ID: N/A

Substance Emitted & CAS No.: Chromium 18540299

Quantification Method: The EPA Emission Factor (Ref. 1) for chromic acid anodizing will be used to calculate the emissions of Chromium.

 $EF = 0.0019 \, lb/hr/ft^2$ 

 $MHE = EF \times SQFT -$ 

14"x35"



Permit ID: 142252 (applied for)
Control Equipment Code: N/A

Control Type: N/A

Control Permit ID: N/A

Stack ID: N/A

Substance Emitted & CAS No.: Chromium 18540299

Quantification Method: The EPA Emission Factor (Ref. 1) for chromic acid anodizing will be used to calculate the emissions of Chromium.

 $EF = 0.0019 \, lb/hr/ft^2$ 

MHE = EF x SQFT 48x34





Permit ID: New

Control Equipment Code: N/A

Control Type: N/A

Control Permit ID: N/A

Stack ID: N/A

Substance Emitted & CAS No.: Chromium 18540299

Quantification Method: The EPA Emission Factor (Ref. 1) for chromic acid anodizing will be used to calculate the emissions of Chromium.

 $EF = 0.0019 \, lb/hr/ft^2$ 

MHE = EF x SQFT 45x24







Permit ID: New

Control Equipment Code: N/A

Control Type: N/A

Control Permit ID: N/A

Stack ID: N/A

Substance Emitted & CAS No.: Chromium 18540299

Quantification Method: The EPA Emission Factor (Ref. 1) for chromic acid anodizing will be used to calculate the emissions of Chromium.

 $EF = 0.0019 \, lb/hr/ft^2$ 

MHE = EF x SQFT & CYD4





Permit ID: New

Control Equipment Code: N/A

Control Type: N/A

Control Permit ID: N/A

Stack ID: N/A

Substance Emitted & CAS No.: Hydrochloric Acid 7647010

Quantification Method: An evaporation rate for heated tanks of Hydrochloric Acid was derived using empirical data based on the partial pressure of HCl over aqueous solutions.

MHE = 
$$(P_{HCI})(Q)/(760)(H_{fg})$$

Where:

P<sub>HCI</sub> = Partial Pressure of HCI Over Aqueous Solutions (Ref. 4, Table 3-11)

Q = Heat Input to Tank in BTU/Hr

H<sub>fo</sub> = Heat of Vaporation from Steam Table

 $AAE = MHE \times DOP \times HOP$ 

Example:

Tank at 90° F 10% HCl with 500,000 BTU/Hr Burner

 $X_{HCI} = (0.014) 500,000 BTU lb = 0.00837 lb/hr$  (760) 1100 BTU/Hr





Permit ID: New

Control Equipment Code: N/A

Control Type: N/A

Control Permit ID: N/A

Stack ID: N/A

Substance Emitted & CAS No.: Copper 7440508

Quantification Method: The EPA Emission Factor (Ref. 1) for Chromic Acid anodizing will be adjusted for Copper plating based on a ratio of molecular weights. The same mechanism for entraining droplets of copper is present as in chrome anodizing.

 $EF_{Chromium} = 0.0019 lb/hr/ft^2$ 

MHE = EF Chromium x Tank Area x (MW<sub>Copper</sub> /MW<sub>Chromium)</sub>

 $AAE = MHE \times HOP \times DOP$ 

 $MW_{Copper} = 63.546$ 

 $MW_{Chromium} = 51.996$ 

### **DEVICE NAME: DEGREASER**

Device ID: 9

Permit ID: P 43029

Control Equipment Code: N/A

Control Type: N/A

Control Permit ID: N/A

Stack ID: N/A

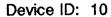
Substance Emitted & CAS No.: Methyl Chloroform 71556

Quantification Method: Mass Balance Principles will be applied to determine the emissions. Records of the amount of degreaser purchased and the amount recycled will be used to determine the amount evaporated.

 $AAE = %S \times (solvent purchased/yr - solvent recycled/yr)$ 



### DEVICE NAME: ULTRASONIC VAPOR DEGREASER



Permit ID: M 60720

Control Equipment Code: N/A

Control Type: N/A

Control Permit ID: N/A

Stack ID: N/A

Substance Emitted & CAS No.: Fluorocarbons 1105

Quantification Method: Mass Balance Principles will be applied to determine the emissions. Records of the amount of degreaser purchased and the amount recycled will be used to determine the amount evaporated.

 $AAE = %S \times (solvent purchased/yr - solvent recycled/yr)$ 







Permit ID: P 20643

Control Equipment Code: 012

Control Type: Baghouse

Control Permit ID: P 62837

Stack ID: 90004

Substance Emitted & CAS No.: Silica 1175

Quantification Method: Engineering judgment based on the size of the grit suggests that <1% of the grit is vented to the atmosphere. The grit-blast area is enclosed.

MHE = Hourly Usage x 0.01

AAE = Annual Usage x 0.01







Permit ID:

Control Equipment Code: N/A

Control Type: N/A

Control Permit ID: N/A

Stack ID:

Substance Emitted & CAS No.: Chlorine 7782505

Quantification Method: ARB Method (Ref. 4)

MHE = DO x WR x CO x 8.33 x 60

 $AAE = MHE \times HOP \times DOP$ 

Where: DO = Drift Fraction

WR = Water Flow (gpm)

CO = Chlorine Concentration (ppmw)



# **PROCESS**

# B. HYDRAULIC ASSEMBLY

<u>Process Description:</u> Hydraulic parts are assembled and tested in this process. Emission sources include solvents from painting operations and degreasing and volatile organics from natural gas burning.

# **DEVICES USED IN THIS PROCESS**

| ID No. | <u>Name</u>       |  |
|--------|-------------------|--|
| 13     | Paint Bake Oven   |  |
| 14     | Paint Spray Booth |  |
| 15     | Degreaser         |  |
| 16     | Parts Cleaner     |  |







Permit ID: P 05144

Control Equipment Code: N/A

Control Type: N/A

Control Permit ID: N/A

Stack ID: N/A

Substance Emitted & CAS No.: Benzene

71432

Formaldehyde

50000

Toluene

108883

Quantification Method: Emission of volatile organic compounds in natural gas fired burners are calculated based on EPA emission factors (Ref. 2). The emissions of the substances to be quantified are based on the percent of the substance in the total VOC emissions (Ref. 3).

VOC EF: 5.8 lb/10<sup>6</sup> ft<sup>3</sup>

Benzene 4%

Toluene 2%

Formaldehyde 8%

MHE = Max Hourly Fuel Usage x VOC EF x %S

AAE = Monthly Fuel Usage x VOC EF x %S x 12





Permit ID: P 36679

Control Equipment Code: N/A

Control Type: N/A

Control Permit ID: N/A

Stack ID: 90005

Substance Emitted & CAS No.: Fluorocarbons

1105

(Trichlorotrifluoroethane)

Quantification Method: Mass Balance Principles will be used assuming all of the volatile organics in the paint will be evaporated into the atmosphere.

MHE = %S x Max Hourly Usage

AAE = %S x Yearly Usage



# **DEVICE NAME: DEGREASER**

Device ID: 15

Permit ID: M 51995

Control Equipment Code: N/A

Control Type: N/A

Control Permit ID: N/A

Stack ID: N/A

Substance Emitted & CAS No.: Methyl Chloroform 71556

Quantification Method: Mass Balance Principles will be applied to determine the emissions. Records of the amount of degreaser purchased and the amount recycled will be used to determine the amount evaporated.

 $AAE = %S \times (solvent purchased/yr - solvent recycled/yr)$ 



Permit ID: New

Control Equipment Code: N/A

Control Type: N/A

Control Permit ID: N/A

Stack ID:

Substance Emitted & CAS No.: Methyl Chloroform 71556

Quantification Method: Mass Balance Principles will be applied to determine the emissions. Records of the amount of degreaser purchased and the amount recycled will be used to determine the amount evaporated.

AAE = %S x (solvent purchased/yr - solvent recycled/yr)



# **PROCESS**

# C. SKYDROL AND ENGINEERING

Process Description: The engineering lab is involved in material process development.

# **DEVICES USED IN THIS PROCESS**

| ID No. | Name               |  |
|--------|--------------------|--|
| 17     | Cooling Towers (6) |  |
| 18     | Engineering Lab    |  |



# **DEVICE NAME: COOLING TOWERS (6)**

Device ID: 17

Permit ID: New

Control Equipment Code: N/A

Control Type: None

Control Permit ID: N/A

Stack ID: N/A

Substance Emitted & CAS No.: Chlorine 7782505

Quantification Method: ARB Method (Ref. 5)

MHE = DO x WR x CO x 8.33 x 60

 $AAE = MHE \times HOP \times DOP$ 

Where: DO = Drift Fraction

WR = Water Flow (gpm)

CO = Chlorine Concentration (ppmw)



### DEVICE NAME: ENGINEERING LAB

Device ID: 18

Permit ID: New

Control Equipment Code: N/A

Control Type: N/A

Control Permit ID: N/A

Stack ID: N/A

Substance Emitted & CAS No.: Fluorocarbons 1105

Quantification Method: Mass Balance Principles will be used assuming all volatile organic material in the solvent will be evaporated into the atmosphere.

MHE = %S x Max Hourly Usage

AAE = %S x Yearly Usage

# **PROCESS**

# D. ELECTRONIC ASSEMBLY

Process Description: Electronic parts are assembled and tested in this operation.

# **DEVICES USED IN THIS PROCESS**

| ID No. | Name                      |
|--------|---------------------------|
| 19     | Degreaser                 |
| 20     | Spray Booth               |
| 21     | Degreaser                 |
| 22     | Flow Solder & Solder Pots |





Permit ID: New

Control Equipment Code: N/A

Control Type: N/A

Control Permit ID: N/A

Vent ID: 90006

Substance Emitted & CAS No.: Methyl Chloroform 71556

Fluorocarbons 1105

Quantification Method: Mass Balance Principles will be applied to determine the emissions. Records of the amount of degreaser purchased and the amount recycled will be used to determine the amount evaporated.

 $AAE = %S \times (solvent purchased/yr - solvent recycled/yr)$ 





Permit ID: M 42415

Control Equipment Code: N/A

Control Type: N/A

Control Permit ID: N/A

Vent ID: 90007

Substance Emitted & CAS No.: Toluene 108883

Quantification Method: Mass Balance Principles will be applied to determine the emissions. Records of the amount of degreaser purchased and the amount recycled will be used to determine the amount evaporated.

 $AAE = %S \times (solvent purchased/yr - solvent recycled/yr)$ 



### **DEVICE NAME: DEGREASER**

Device ID: 21

Permit ID: M 60608

Control Equipment Code: N/A

Control Type: N/A

Control Permit ID: N/A

Vent ID: N/A

Substance Emitted & CAS No.: Methyl Chloroform 71556

Quantification Method: Mass Balance Principles will be applied to determine the emissions. Records of the amount of degreaser purchased and the amount recycled will be used to determine the amount evaporated.

 $AAE = %S \times (solvent purchased/yr - solvent recycled/yr)$ 





Permit ID: New

Control Equipment Code: N/A

Control Type: N/A

Control Permit ID: N/A Vent ID: 90008, 90009

Substance Emitted & CAS No.: Lead

had

7439921

Quantification Method: Two tin-lead solder pots contain melted solder for dipping purposes. The lead emissions will be calculated using the EPA emission factor (Ref. 1) for kettle refining in the secondary lead processing industry. Since the emission factor is only 0.2 lb/ton of material processed and tin-lead solder contains only 30% Lead, it is not expected that the solder pots will emit an appreciable quantity of lead.

AAE = %S x EF x yearly Usage

### REFERENCES

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- 2. U.S. EPA, 1985. Compilation of Air Pollutant Emission Factors, Vol. 1. Stationary Point and the Area Sources, 4th edition. PB 86-124906. Research Triangle Park, NC: U.S. EPA, Office of Air Quality Planning and Standards.
- 3. U.S. EPA, 1988. Air Emissions Species Manual, Vol. I: Volatile Organic Compound (VOC) Species Profile. EPA-450/2-88-003a. PB 88-225792. Research Triangle Park, NC: U.S. EPA, Office of Air Quality Planning and Standards.
- 4. Perry, Robert H., 1984. Perry's Chemical Engineer's Handbook, Sixth Edition. Don W. Green (ed.). New York: R.R. Donnelley & Sons Company.
- 5. Air Resources Board, 1989. Emission Inventory Criteria and Guideline Regulation. Sacramento, CA: ARB, Technical Support Division.



### APPENDIX A-1

Substances For Which Emissions Must Be Quantified

| CAS Substance Name<br>Number  | Use            | Produce             | Otherwise<br>Present | Not<br>Present at<br>Facility | Applicab<br>Degree o<br>Accuracy |
|---|----------------|---------------------|----------------------|-------------------------------|----------------------------------|
| 75070 Acetaldehyde  | Yes            | Yes                 | Yes                  | No                            | lb per yr                        |
| 60355 Acetamide   | ()             | ()                  | ()                   | ( <u>×</u> )                  | 100                              |
| 107028 Acrolein   | ()             | ( <u> </u> )        | ()                   | ( <u>×</u> )                  | 100                              |
| 79061 Acrylamide  | ()             | ( <u> </u> )        | ()                   | ( <del>▼</del> )              | 10                               |
| 107131 Acrylonitrile  | ()             | ()                  | ()                   | ( <u>×</u> )                  | 100                              |
| 107051 Allyl chloride   | ()             | ()                  | ( <del></del> )      | ( <del>_X_</del> )            | 100                              |
| 117793 2-Aminoanthraquinone   | ()             | ()                  | ()                   | ( <del>×</del> )              | 100                              |
| 61825 Amitrole  | ()             | ()                  | ()                   | $(\underline{X})$             | 100                              |
| 7664417 Ammonia   | ()             | ()                  | ()                   | (文)                           | 100                              |
| 7440382 Arsenic   | ()             | ()                  | ()                   | ( <u>X</u> )                  | 100                              |
| * Arsenic compounds (inorganic)   | ()             | ()                  | ()                   | ( <del>X</del> )              | 1                                |
| 7784421 Arsine  | ()             | ()                  | ()                   | ( <u>X</u> )                  | 1                                |
| 1332214 Asbestos  | ()             | ()                  | ()                   | ( <u>X</u> )                  | 10                               |
| 71432 Benzene   | ()             | ( <del></del> )     | ()                   | ( <u>X</u> )                  | 100                              |
| 92875 Benzidine (and its salts)   | ()             | ( <u>×</u> )        | ()                   | ( <u> </u>                    | 10                               |
| - Benzidine-based dyes  | ()             | ()                  | ()                   | <u>(×)</u>                    | 10                               |
| 56533 Benz (a) anthracene   | (,             | $\langle - \rangle$ | ()                   | ( <u>×</u> )                  | 10                               |
| 205992 Benzo(b) fluoranthene  | (              | ()                  | ()                   | ( 7 )                         | 100                              |
| 207089 Benzo (k) fluoranthene   | (              | <u>(—)</u>          | ()                   | ( <u>X</u> )                  | 100                              |
| 50328 Benzo(a) pyrene   | ()             | ()                  | ()                   | ( <u>X</u> )                  | 100                              |
| 100447 Benzyl chloride  | <u>`</u> '     | _                   | ()                   | ( <u>X</u> )                  | 1                                |
| 7440417 Beryllium   | ()             | ()                  | ()                   | ( <u>X</u> )                  | 10                               |
| 542881 Bis(chloromethyl)ether   | ()             | _                   | ( <u> </u>           | ( <del>X</del> )              | 1                                |
| 7726956 Bromine   | ()             |                     | <u>(—)</u>           | ( <u>X</u> )                  | 10                               |
| * Bromine compounds (inorganic)   | (              |                     | <u>()</u>            | ( <del>X</del> )              | 100                              |
| 106990 1,3-Butadiene *  | (              | _                   | ()                   | ( <u>X</u> )                  | 100                              |
| 7440439 Cadmium   | ( <u>X</u> )   |                     | <u>(—)</u>           | $(\frac{1}{2})$               | 10                               |
| * Cadmium compounds   | ()             |                     | ()                   | ()                            | 1                                |
| - Carbon black extracts   |                |                     | <u>(—)</u>           | ( <del>_X_</del> )            | 1                                |
| 56235 Carbon tetrachloride  | ()             |                     | ()                   | ( <u>X</u> )                  | 100                              |
| - Carrageenan (degraded)  |                |                     | <u>`</u> '           | ( <u>X</u> )                  | 10                               |
| 76131 Chlorinated flouracarbon (CFC-113)  |                |                     | <u></u> '            | ( <u>X</u> )                  | 100                              |
| 782505 Chlorine   |                |                     |                      | ( <u>X</u> )                  | 100                              |
| 56757 Chloramphenicol   |                |                     |                      | ()                            | 10                               |
| 108907 Chlorobenzene  |                |                     | ;                    | (X)                           | 100                              |
| 909096 1-(2-chloroethyl)-3-(4-methylcyclohexyl)-  | ()             |                     |                      | ( <u>X</u> )                  | 100                              |
| 1-nitrosourea (Methyl CCMU)   | ()             |                     | —'                   | (文)                           | 100                              |
| 67663 Chloroform  | ()             |                     | '                    | ( <u>X</u> )                  | 100                              |
| * Chiorophenois   |                |                     | }                    | ( <u>X</u> )                  | 10                               |
| 76062 Chloropicrin  | ()             |                     |                      | ( <del>X)</del>               | 100                              |
|   |                |                     |                      | <u>(大</u> )                   | 10                               |
| the Otherwise Present category is checked "Yes", ple<br>nature of the substance's presence in the space pro | ease list than | substan             | ce and spe           | cify                          |                                  |



| CAS<br>Number | Substance Name                                | Use               | Produce      | Otherwise<br>Present                         | Not<br>Present at<br>Facility | Applicab<br>Degree b<br>Accuracy |
|---------------|---|-------------------|--------------|--|-------------------------------|----------------------------------|
| 126008        | Chloroprene                                   | Yes               | Yes          | Yes  | No                            | lb per yr                        |
|               |   | ()                | ()           | ()   | ( <u>×</u> )                  | 100                              |
|               | 4-Chloro-o-phenylenediamine                   | ()                | ()           | ()   | ( <u>X</u> )                  | 100                              |
|               | p-Chloro-o-toluidine<br>Chromium (hexavalent) | ( <del>``</del> , | ()           | ()   | ( <u>×</u> )                  | 100                              |
|               | Coke oven emissions                           | ( <u>X</u> )      | ()           | ()   | ()                            | 0.1                              |
| 7440508       |   | ()                | ()           | ()   | ( <u>×</u> )                  | 100                              |
|               |   | ( <u>X</u> )      | ()           | ()   | ()                            | 100                              |
|               | Creosotes                                     | ()                | ()           | ()   | ( <u>大</u> )                  | 100                              |
|               | p-Cresidine                                   | ()                | ()           | ()   | ( <del>_X</del> )             | 100                              |
| 1319773       |   | ()                | ()           | ()   | ( <u>ـــــــــ</u> )          | 100                              |
|               | Cupferron                                     | ()                | ()           | ()   | ( <del>'X'</del> )            | 100                              |
|               | Cycloheximide                                 | ()                | ()           | ()   | (X)                           | 100                              |
|               | Dialkylnitrosamines                           | ()                | ()           | ()   | (X)                           | 100                              |
|               | 2,4-Diaminoanisole                            | ()                | ()           | ()   | ( <u>X</u> )                  | 100                              |
|               | 2,4-Diaminotoluene                            | ()                | ()           | ()   | ( <u>X</u> )                  | 100                              |
|               | Dibenz(a,h)anthracene                         | ()                | ()           | ()   | ( <u>X</u> )                  | 100                              |
| * (           | Dibenzofurans (chlorinated)                   | ()                | ()           | ()   | ()                            | 0.1                              |
| 96128         | 1,2-Dibromo-3-chloropropane (DBCP)            | ()                | ()           | ()   | ( <u>×</u> )                  | 100                              |
| 106467 p      | p-Dichtorobenzene (1,4-Dichtorobenzene)       | ()                | ()           | ()   | ( <u>X</u> )                  | 100                              |
|               | 3,31-0ichlorobenzidine                        | ()                | ( <u>·</u> ) | ()   | ( <u>X</u> )                  | 10                               |
| 117817        | )i(2-ethythexyt) phthatate (DEHP)             | ()                | ()           | ()   | ( <u>x</u> )                  | 100                              |
| 124403 0      | imethytamine                                  | ()                | ()           | ()   | ( <u>بحـ</u> )                | 100                              |
| 60117 p       | o-Dimethylaminoazobenzene                     | ()                | ()           | <del></del> ;                                | $(\underline{X})$             | 100                              |
| 57147 1       | ,1-Dimethythydrazine                          | ()                | ()           | ()   | ( <u>×</u> )                  | 100                              |
| 77781 0       | imethyl sulfate                               | ()                | ()           | ()   | ( <u>×</u> )                  | 100                              |
| 123911 1      | ,4-Dioxane                                    | ()                | ()           | ()   | ( <del>X</del> )              | 100                              |
| - D           | ioxins (chlorinated dibenzodioxins)           | ()                | ()           | ()   | ( <u>X</u> )                  | 0.1                              |
| Ε             | nvironmemtal tobacco smoke                    | ()                | ()           | <u>`</u> ;                                   |                               | 100                              |
|               | pichlorohydrin                                | (                 | ()           | <u>`</u>                                     | ( <u>X_</u> )                 | 100                              |
|               | thyl acrylate                                 | <del>;_</del> ;   | ( )          | <u>()</u>                                    | (文)<br>(文)                    | 100                              |
|               | thyl chloride                                 | <u>(</u>          | *******      | $\stackrel{\smile}{\subset}$                 |                               | 100                              |
|               | thylene dibromide (1,2-Dibromoethane)         |                   |              | <u>`</u>                                     | ( <u>X</u> )                  |                                  |
| 107062 E      | thytene dichtoride (1,2-Dichtoroethane)       | ( <u> </u>        | ()           | <u>`</u> _'                                  | (不)                           | 1                                |
| 75218 E       | thylene oxide                                 |                   | ·            | ()   | ( <u>大</u> )                  | 10                               |
|               | thylene thiourea                              | ()                |              | ()   | ( <u>火</u> )                  | 10                               |
|               | luorocarbons (chlorinated & brominated)       | ( <del>~</del> )  |              | ()   | ( <del> X </del> )            | 100                              |
| 50000 F       | Prmaldehyde                                   |                   |              | ()   | ()                            | 100                              |
|               | ssoline vapors                                |                   |              | <del>()</del>                                | ()                            | 100                              |
|               | utaraldehyde                                  | ()                |              | <u>(                                    </u> | ( <u>X</u> )                  | 100                              |
|               | ycol ethers                                   |                   | ()           |  | ( <del>X</del> )              | 100                              |
|               | riseofulvin                                   | ()                |              | ()   | ( <u>X</u> )                  | 100                              |
|               | - acoust A til                                | ()                | ()           | ()   | ( <u>X</u> )                  | 100                              |



5/15/89

Plan: Number 11217 Date 8/3/89 Name of Person Completing This Form Margaret Berry

| CAS                                   | Substance Name                                | Use          | Produce   | Otherwise | No.                       |           |
|---------------------------------------|---|--------------|-----------|-----------|---------------------------|-----------|
| Number                                |   |              | 7,00000   | Present   | Not<br>Present at         | Applicat  |
|                                       |   |              |           |           | facility                  | Degree o  |
| · · · · · · · · · · · · · · · · · · · |   |              | ····      |           |                           | Accuracy  |
| 1187/1                                | Vanakland                                     | Yes          | Yes       | Yes       | No                        | lb per yr |
|                                       | Hexachlorobenzene                             | ()           | ()        | ()        | ( <u>X</u> )              | 1         |
|                                       | Mexach Long curl of the same s                | ()           | ()        | ()        | ( <u>X</u> )              | 1         |
|                                       | Hexachtorocyctopentadiene Hydrazine           | ()           | ()        | ()        | ( <u>X</u> )              | 100       |
|                                       | Hydrochloric acid                             | ()           | ()        | ()        | ( <u>X</u> )              | 100       |
|                                       | Hydrocyanic acid                              | ( <u>×</u> ) | ()        | ()        | ()                        | 100       |
|                                       | Hydrogen fluoride                             | ()           | ()        | ()        | ( <u>X</u> )              | 10        |
|                                       |   | ()           | ()        | ()        | ( <u>X</u> )              | 10        |
|                                       | Hydrogen sulfide                              | ()           | ()        | ()        | ( <u>X</u> )              | 100       |
|                                       | Indeno(1,2,3,-cd)pyrene                       | ()           | ()        | ()        | ( <u>X</u> )              | 100       |
| 7439921                               | Isocyanates                                   | ()           | ()        | ()        | ( <u>×</u> )              | 100       |
|                                       |   | ( <u>X</u> ) | ()        | ()        | ()                        | 10        |
| 100717                                | Lead compounds (inorganic)                    | ()           | ()        | ()        | ( <u>X</u> )              | 10        |
|                                       | Maleic anhydride<br>                          | ()           | ()        | ()        | ( <u>X</u> )              | 100       |
|                                       | Manganese                                     | ()           | ()        | ()        | ( <u>×</u> )              | 100       |
|                                       | Mercuric chloride                             | ()           | ()        | ()        | ( <u>×</u> )              | 10        |
| 7439976                               |   | ()           | ()        | ()        | ( <u>X</u> )              | 10        |
|                                       | Methanol                                      | ()           | ()        | ()        | ( <u>×</u> )              | 100       |
|                                       | Methyl bromide (Bromomethane)                 | ()           | ()        | ()        | ( <u>×</u> )              | 100       |
| (1)000 !                              | Methyl chloroform (1,1,1-Trichloroethane)     | ( <u>X</u> ) | ()        | ()        | ()                        | 100       |
|                                       | Methyl isocyanate                             | ()           | ()        | ()        | ( <u>*</u> )              | 100       |
|                                       | Hethyl methacrylate                           | ()           | ()        | ()        | ( <u>×</u> )              | 100       |
| 101144 4                              | 4,41-Methylene bis(2-chloroaniline) (MOCA)    | ()           | ()        | ()        | ( <u>×</u> )              | 100       |
| 75092 8                               | dethylene chloride (Dichloromethane)          | ()           | ()        | ()        | ( <u>×</u> )              | 100       |
| 101779 4                              | 4,41-Methylene dianiline (and its dichloride) | ()           | ()        | ()        | ( <u>X</u> )              | 100       |
| 593748                                | fethyl mercury (Dimethylmercury)              | ()           | ()        | ()        | ( <u>X</u> )              | 10        |
|                                       | fetronidazot e                                | ()           | ()        | ()        | ( <u>X</u> )              | 100       |
|                                       | fichter's ketone                              | ()           | ()        | ()        | ( <u>X</u> )              | 100       |
|                                       | lineral fibers                                | ()           | ()        | ()        | ( <u>×</u> )              | 100       |
| 91203 N                               | aphthalene                                    | ()           | ()        | ()        | ( <u>×</u> )              | 100       |
| '440020 N                             |   | ()           | ()        | ()        | ( <u>×</u> )              | 1         |
|                                       | ickel carbonyl                                | ()           | ()        | <u>()</u> | ( <u>X</u> )              | 1         |
| 035722 N                              | ickel subsulfide                              | ()           | ()        | ()        | ( <u>X</u> )              | 1         |
|                                       | iridazole                                     | ()           | ()        | <u>()</u> | ( <u>×</u> )              | 100       |
|                                       | itrobenzene                                   | ()           |           | <u>_</u>  | ( <u>X</u> )              | 100       |
|                                       | itrogen mustard N-oxide                       | ()           |           |           | $(\overline{\mathbf{x}})$ | 100       |
|                                       | -Nitropropane                                 |              | $\subset$ |           | ( <u>文</u> )              | 100       |
|                                       | -Nitrosodiethylamine                          |              |           | <u> </u>  | ( <del>*X</del> )         | 1         |
|                                       | -Nitrosodimethylamine                         |              |           |           | ( <u>*</u> )              | 1         |
|                                       | -Nitrosodiphenylamine                         | ()           |           |           | ( <u>X</u> )              | 100       |
|                                       | Nitrosodi-n-butylamine                        | (            |           | ·         | (文)                       | 1         |
|                                       |   |              |           | ·         | <u> </u>                  | •         |

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| -Nitrosodi-n-propylamine -Nitrosomethylethylamine -Nitrosomorpholine -Nitrosopiperidine -Nitrosopyrrolidine xymetholone AHS (Polycyclic aromatic hydrocarbons) CBS (Polychlorinated biphenyls) erchloroethylene (Tetrachloroethene) menobarbitol menol mosphine  | Tes (   | Yes () () () () () () () () () ()  | Yes () () () () () () () () () () () () | Present at Facility  NO (X) (X) (X) (X) (X) (X) (X) (X) (X) (X)                                   | Degree o Accuracy  1b per yr 100 100 100 100 100 1 |
|--|---|--|---|---|--|
| -Nitrosomethylethylamine -Nitrosomorpholine -Nitrosomorpholine -Nitrosopyrrolidine  kymetholone AHS (Polycyclic aromatic hydrocarbons) CBS (Polychlorinated biphenyls) erchloroethylene (Tetrachloroethene) menobarbitol menol mosgene mosphine  |   |  |   | (X)<br>(X)<br>(X)<br>(X)<br>(X)<br>(X)<br>(X)   | 100<br>100<br>100<br>100<br>100<br>100<br>1        |
| -Nitrosomethylethylamine -Nitrosomorpholine -Nitrosomorpholine -Nitrosopyrrolidine  kymetholone AHS (Polycyclic aromatic hydrocarbons) CBS (Polychlorinated biphenyls) erchloroethylene (Tetrachloroethene) menobarbitol menol mosgene mosphine  |   |  |   | (X)<br>(X)<br>(X)<br>(X)<br>(X)<br>(X)  | 100<br>100<br>100<br>100<br>1<br>1                 |
| -Nitrosomethylethylamine -Nitrosomorpholine -Nitrosomorpholine -Nitrosopyrrolidine  kymetholone AHS (Polycyclic aromatic hydrocarbons) CBS (Polychlorinated biphenyls) erchloroethylene (Tetrachloroethene) menobarbitol menol mosgene mosphine  |   |  |   | (文)<br>(文)<br>(文)<br>(文)<br>(文)<br>(文)  | 100<br>100<br>100<br>1<br>1<br>100                 |
| -Nitrosomorpholine -Nitrosopiperidine -Nitrosopyrrolidine -Nitrosopyrrolidine -Nitrosopyrrolidine -Nitrosopyrrolidine -Nitrosopyrrolidine -Nitrosopyrrolidine -Nitrosopyrrolidine -Nitrosopyrolidine -Nitro |   |  |   | (X)<br>(X)<br>(X)<br>(X)<br>(X)<br>(X)  | 100<br>100<br>1<br>100<br>100                      |
| -Nitrosopiperidine -Nitrosopyrrotidine xymethotone AHS (Polycyclic aromatic hydrocarbons) CBS (Polychlorinated biphenyls) erchloroethylene (Tetrachloroethene) menobarbitol menot mosgene mosphine   |   |  | (                                       | ( <u>來</u> )<br>( <u>來</u> )<br>(來)<br>(來)  | 100<br>1<br>100<br>100                             |
| ANITOSOPYTTOLIGINE  EXYMPTHOLONE  ANIS (Polycyclic aromatic hydrocarbons)  CBS (Polychlorinated biphenyls)  erchloroethylene (Tetrachloroethene)  menobarbitol  menol  mosgene  mosphine   |   |  |   | ( <u>不</u> )<br>( <u>X</u> )<br>( <u>X</u> )<br>( <u>X</u> )                                      | 1<br>100<br>100                                    |
| AMS (Polycyclic aromatic hydrocarbons)  CBS (Polychlorinated biphenyls)  erchloroethylene (Tetrachloroethene)  nenobarbitol  nenol  nosgene  nosphine  |   | ()<br>()<br>()   |   | ( <u>×</u> )<br>( <u>×</u> )<br>( <u>×</u> )  | 100<br>100   |
| AMS (Polycyclic aromatic hydrocarbons)  CBs (Polychlorinated biphenyls)  crchloroethylene (Tetrachloroethene)  denobarbitol  denol  dospene  dosphine  |   | ()<br>()<br>()   | (                                       | ( <u>×</u> )  | 100  |
| CBs (Polychlorinated biphenyls) erchloroethylene (Tetrachloroethene) menobarbitol menol mosgene mosphine   |   | ( <u> </u>   | ( <u> </u>                              | ( <u>×</u> )  |  |
| erchloroethylene (Tetrachloroethene) menobarbitol menol mosgene mosphine mosphorus   |   | ( <u> </u>   | <del></del>                             |   | 1  |
| nenobarbitol<br>nenol<br>nosgene<br>nosphine<br>nosphorus  | ()<br>()  | ()   |   | ( Y )   | •  |
| nenol<br>losgene<br>losphine<br>losphorus  | ( <u> </u>  |  | / \                                     |   | 100  |
| losgene<br>losphine<br>losphorus   | ()  | ()   | ·                                       | ( <u>X</u> )  | 100  |
| nosphine<br>nosphorus  |   |  | ()                                      | ( <u>×</u> )  | 100  |
| osphorus   | ()  | ()   | ()                                      | ( <del>X</del> )  | 100  |
|  |   | ()   | ()                                      | ( <u>X</u> )  | 10   |
|  | ()  | ()   | ()                                      | ( <del>X</del> )  | 100  |
| thatic anhydride   | ()  | ()   | ()                                      | ( <del>X</del> )  | 100  |
| classium bromate   | ()  | ()   | ()                                      | ( <u>X</u> )  | 100  |
| Ogesterone   | ()  | ()   | ()                                      | ( <u>×</u> )  | 100  |
| 3-Propane sultone  | ()  | ()   | ()                                      | ( <del>-x</del> )   | 100  |
| opy lene   | ()  | ()   | ()                                      | ( <del>-X</del> -)  | 100  |
| opylene oxide  | ()  | ()   | ()                                      | ( <u>×</u> )  | 100  |
| dionuctides  | ()  | ()   | ()                                      | ( <del> X </del> )  | 100  |
| tenium   |   |  |   | ( <u>×</u> )  | 100  |
|  |   |  |   |   | 100  |
|  |   |  |   |   | 100  |
|  |   |  |   |   | 100  |
|  |   |  | ()                                      | ( <u>X</u> )  | 100  |
| 3,7,8-Tetrachlordibenzo-p-dioxin (TCDD)  |   |  | ()                                      | ( <u>×</u> )  | 100  |
|  | ()  | ()   | ()                                      | ( <u>حر</u> )   | 100  |
|  | ()  | ()   | ()                                      | $(\overline{\mathbf{x}})$   | 100  |
|  | ()  |  | ()                                      | ()  | 100  |
|  | ()  | ()   | ()                                      | (文)   | 10   |
|  | ()  |  |   | ( <u>X</u> )  | 10   |
|  |   |  |   | ( <u>×</u> )  | 100  |
|  | ()  | ()   | ()                                      | ( <u>X</u> )  | 100  |
| thane  | ()  | ()   | ()                                      | ( <u>X_</u> )   | 100  |
| nyt chtoride   | ()  | ()   | ()                                      | ( <u>*</u> )  | 100  |
| nylidene chloride  | ()  | ()   | ()                                      | ( <u>X</u> )  | 1  |
| ènes   | ()  | ()   | ()                                      | ( <u>×</u> )  | 100  |
| ne   |   |  |   | (×)   | 100  |
| c Oxide  |   |  |   | ( <u>X</u> )  | 100  |
|  |   |  |   |   |  |
| ididiya, ididididi idi idi idi idi idi idi idi   | enium compounds ica, crystalline ium hydroxide rene 7,8-Tetrachlordibenzo-p-dioxin (TCDD) pacetamide purea pene pene-2,4-diisocyante pene-2,6-diisocyante pene-2,6-diisocyante thoroethylene 6-Trichlorophenol hane i chloride lidene chloride nes  Oxide | enium comoounds  ica, crystalline  ica, crystalline  ica, crystalline  ica, crystalline  ica, crystalline  ( | enium compounds  (                      | ### Present category is checked "Yes", please list that substance and special ica, crystalline  ( | enium compounds  (                                 |



APPENDIX A-II.

# Plant Number 11217 Date 9/3/89' Name of Person Completing This Form Margaret Berry

| CAS                            | 5 marana 2/2-  |              |                                | _   |                   |
|--------------------------------|--|--------------|--------------------------------|---|-------------------|
| Number                         | Substance Hame   | use          | Produce                        | Otherwis:                                     |                   |
| au ioei                        |  |              |                                | Present                                       | oresent a         |
|                                |  |              |                                |   | facility          |
|                                |  |              | <del></del>                    |   |                   |
| 57047                          | 2 Americania de  | Yes          | Yes                            | Yes   | No                |
|                                | 2-Acetylaminofluorene  | (—)          | ()                             | ()  | $(\underline{X})$ |
|                                | Adriamycin   | ()           |                                | ()  | ( <u>X</u> )      |
| 3688537                        |  | ()           |                                | ()  | ( <u>X</u> )      |
|                                | Aftatoxins   |              | ()                             | ()  | ( <u>X</u> )      |
|                                | p-Aminoazobenzene (4-Aminoazobenzene)  |              | ()                             | ()  | ( <u>×</u> )      |
|                                | 0-Aminoazotoluene  |              | ()                             | ()  | ( <u>×</u> )      |
|                                | 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole  | ()           | ()                             | ()  | ( <u>×</u> )      |
|                                | 4-Aminobiphenyl  | ()           | ()                             | ()  | ( <u>X</u> )      |
| 82280                          | 1-Amino-2-methylanthraquinone  | ()           | ()                             | ()  | ( <u>×</u> )      |
| 54626                          | Aminopterin  | ()           | ()                             | ()  | ( <u>×</u> )      |
| •                              | Analgesic mixtures containing phenacetin   | ()           | ()                             | ()  | ( <u>X</u> )      |
| •                              | Androgenic (anabolic) steriods   | ()           | ()                             | ()  | ( <u>X</u> )      |
| 90040                          | o-Anisidine  |              | ()                             | ()  | ( <u>x</u> )      |
| 134292                         | o-Anisidine hydrochtoride  |              | ()                             | ()  | ( <u>X</u> )      |
|                                | Aramite  |              | ()                             | ()  | ( <u>×</u> )      |
| 492808                         | Auramine   |              | ()                             | (   | ( <u>X</u> )      |
| 115026                         | Azaserine  |              | <u>(</u>                       | $\stackrel{\cdot}{=}$                         | (X)               |
|                                | Azathioprine .   |              | $(\underline{})$               | <u>; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; </u> | ( <u>X</u> )      |
|                                | Benzo (j) fluoranthene   |              | <u>(</u>                       | <u>(</u>                                      |                   |
|                                | Benzoic trichloride (bezotrichloride)  |              | <u>(</u> )                     | <u>(</u> )                                    | ( <u>X</u> )      |
|                                | Benzyl violet 48   |              | <u>(</u>                       |   | ( <u>X</u> )      |
|                                | Betel quid with tabacco  | <u>(</u>     | $\langle \underline{} \rangle$ | (   | ( <del>-X</del> ) |
|                                | N-N-Bis(2-chloroethyl)-2-naphthylamine   | ()           |                                |   | ( <u>X</u> )      |
|                                | (Chtornapazine)  |              | ()                             | ()  | ( <u>X</u> )      |
| 154938                         | Bischloroethyl nitrosourea   | ()           | ()                             | ()  | ( <u>×</u> )      |
|                                | Bitumens, extracts of steam-refined and air  | ()           | ()                             | ()  | (X)               |
|                                | refined bitumens   |              | *                              | ` <del></del>                                 | `                 |
| •                              | Bleomycins   | ()           | ()                             | ()  | ( <u>x</u> )      |
|                                | 1,4-Butanediol dimethanesulfonate (Myleran)  |              | <u>(</u>                       |   |                   |
| 013165                         | Butylated hydroxyanisole (BHA)   | ()           | (                              | <u>()</u>                                     | ( <u>_x_</u> )    |
| 088830                         | beta-Butyrolactone   | (            | <u>(</u>                       | (   | ( <u>X</u> )      |
|                                | Chtorambucit   | (            |                                |   | ( <u>X</u> )      |
|                                | Chlorocyclizine hydrochloride  |              |                                | ()  | ( <u>X</u> )      |
| 143500                         | Chlordecone (Kepone)   |              | ()                             | ()  | ( <u>X</u> )      |
|                                |  | (            | ()                             |   | ( <u>X</u> )      |
| .010474                        | 1-(2-chloroethyl)-3-cyclohexyl-1-nitrosoures<br>(CCXU)   | ()           | ()                             | ()  | ( <u>×</u> )      |
| 107302                         | Chloromethyl methyl ether (technical grade)  | ( )          | ( )                            | ()  | ( X )             |
| •                              | Chlorophenoxy herbicides   |              |                                | <u>`_</u> ;                                   |                   |
|                                | Cisplatin  |              |                                |   |                   |
|                                | Citrus Red No. 2   |              |                                | ( <u> </u>                                    |                   |
|                                | Trius neu no. 2  | (,           | ''                             | (,  | ( <u>X</u> )      |
| the Oti<br>e naturi<br>necess: | nerwise Present category is checked "Yes", please of the substance's presence in the space provi<br>ary. | se list that | it substa<br>Attach            | nce and sp<br>additions                       | ecify<br>i sheets |

Plant Number 11217 Date 8/3/89 Name of Person Completing this Form Marguret Borry

| Yumber     |   | Use          |   | Other                 | * Not                |
|------------|---|--------------|---|-----------------------|----------------------|
|            |   |              |   | Presore               | Present at           |
|            |   |              |   |                       | Facility             |
|            |   |              | <del></del>                                   |                       |                      |
| 1/00/007   |   | Yes          | Yes   | res                   | No                   |
| 14901087   |   | ()           | ( <u> </u>                                    | ()                    | ( <u>×</u> )         |
|            | Cyclophosphamide  | ()           | ()  | ()                    | ( <u>×</u> )         |
|            | Dacarbazine   | ()           | ()  | ()                    | ( <u>×</u> )         |
|            | Daunomycin  | ()           | ()  | ()                    | ( <u>X</u> )         |
| 50293      | DDT(1,1,1-Trich(oro-2,2-bis(p-cnlorophneyl)et           | (hane)()     | ()  | ()                    | ( <u>X</u> )         |
| 613354     | N,N1-Diacety(benzidine                                  | ()           | ()  | ()                    | ( <u>×</u> )         |
| 39156417   | 2,4-Diaminoanisole sulfate                              | ()           | ()  | ()                    | ( <u>X</u> )         |
| 101804     | 4,4'-Diaminodiphenyl ether                              | ()           | ()  | ()                    | ( <u>X</u> )         |
|            | Oibenz(a,h)acridine                                     | ()           | ()  | ()                    | ( <u>X</u> )         |
|            | Oibenz(a,j]acridine                                     | ()           | ()  | ()                    | ( <u>X</u> )         |
| 194592     | 7H-Dibenzo(c,g]cabazole                                 | ()           | ()  | ()                    | (حد)                 |
|            | 0ibenzo(a,e]pyrene                                      | ()           | ()  | ()                    | ( <u>X</u> )         |
|            | Dibenzo(a,h)pyrene                                      | ()           |   | ()                    | ( <u>×</u> )         |
|            | Oibenzo(a,i]pyrene                                      | ()           |   | ()                    | $(\underline{X})$    |
| 191300     | Oibenzo(a, l]pyrene                                     | ()           |   | ()                    | ( <u>X</u> )         |
| 542756     | 1,3-Dichtaropropene                                     | ()           | ()  | ()                    | (天)                  |
| 1464535    | 0 i epoxybutane   | ()           |   | (                     | (X)                  |
| 1615801    | 1,2-Diethythydrazine                                    | ()           |   | (                     | ( <u>×</u> )         |
|            | Diethylstilbestrol                                      | ()           |   | <u>(</u>              | ( <u>×</u> )         |
|            | Diethyl sulfate   |              | <u>; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; </u> | (                     | ( <u>×</u> )         |
|            | Diglycidyl resorcinol ether                             |              | $\stackrel{\cdot}{=}$                         | <u>`_</u> ;           | ( <u>文</u> )         |
| 94586      | Dihydrosafrole  | <u>()</u>    |   | $\stackrel{\cdot}{=}$ |                      |
|            | 3,31-0imethoxybenzidine                                 |              | $\langle \underline{} \rangle$                |                       | ( <u>×</u> )         |
| 5738540    | trans-2-((Dimethylamino)methylimino) S-(2-(5-           | ()           | ( <u> </u>                                    | ( <u> </u>            | $(\frac{\times}{X})$ |
|            | nitro-2-furyl)vinyl]-1,3,4-oxadiazole                   | \ <u></u> /  | <u> </u>                                      | \/                    | ()                   |
| 119937     | 3,3'-0imethy(benzidine (o-tolidine)                     |              | , ,   | , ,                   |                      |
| 79447 [    | Imethylcarbamyl chloride                                | ()           | ()  | ()                    | ( <u>X</u> )         |
| 540738     | ,2-Dimethythydrazine                                    | ()           | (—)   | ()                    | ( <u>X</u> )         |
| 630933 0   | Tiphenythydantoin                                       | ()           | ()  | ()                    | ( <del>-X-</del> )   |
|            |   | ()           | ()  | ()                    | ( <u>×</u> )         |
| 1937377 n  | ,2-Diphenythydrazine (hydrazobenzene)<br>irect Black 38 | ()           | ()  | ()                    | (文)                  |
|            | frect Blue 6  | ()           | ()  | ()                    | (X)                  |
| 1318021 E  |   | ()           | ()  | ()                    | ( <u>X</u> )         |
|            |   | ()           | ()  | ()                    | ( <u>×</u> )         |
|            | stradioi 17 g   | ()           | ()  | ()                    | ( <del>_X_</del> )   |
| 53167 E    |   |              | ()  |                       | (天)                  |
|            | thinylestradiol   |              | ()  |                       | ( <u>x</u> )         |
|            | strogens, nonsteroidal                                  |              | ()  |                       | ( <u>x</u> )         |
|            | strogens, steroidal                                     | ()           | ()  |                       | · ( <u>X</u> )       |
| 3 00¢56    | thyl methanesulfonate                                   |              |   | ()                    | ( <u>X</u> )         |
| 4350480 E  | tretinate   |              | ()  | ()                    | ( <u>X</u> )         |
| f the Othi | ervise Present caragony is should live the              |              |   |                       |                      |
| te nature  | of the subgraphed occasion in the subgraphed            | ided belev   | it substal                                    | nce and s             | pecity               |
| necessar   | of the substance's presence in the space prov           | ridea below. | Attach  | addition              | al sheets            |

Substances for Which Production, Use, or Other Presence Must Be Reported

| CAS Substance Name   | Use             | Produce                | Otherwise  | Hot                          |
|--|-----------------|------------------------|------------|------------------------------|
| knuos  |                 |                        | Present    | racility                     |
| 3570750 2-72 6   | Yes             | Yes                    | Tes        | Мо                           |
| 3570750 2-(2-formythydrazino)-4-(5-nitro-2-furyt)thiazo<br>57730114 Glu-P-1 (2-Amino-6-methyldipyrido(1,2-a:3*,2*<br>-d]imidazole) | ()              | ( <u> </u>             | ()         | (文)<br>(文)                   |
| 57730125 Glu-P-2 (2-Aminodipyrido(1,2-a:3',2'-d]imidazot   | e) ( )          | ()                     | ()         | , , ,                        |
| 765344 Glycidaldehyde  |                 | ()                     |            | ( <del>X</del> )             |
| 6568028 Gyromitrin ( Acetaldehyde methylformylhydrazone  | ) ( <u> </u>    |                        | ()         | ( <u>X</u> )                 |
| 680319 Hexamethylphosphoramide   |                 | ()                     | ()         | ( <u>X</u> )                 |
| 0034932 Hydrazine sulface  | ()              | ()                     | ()         | ( <u>X</u> )                 |
| 6180966 [Q (2-Amino-3-methylimidazo(4,5-f)quinoline)   |                 | ()                     | ()         | ( <del> X </del> )           |
| 9004664 Iron dextran complex   | ()              | ()                     | ()         | ( <u>X</u> )                 |
| 4759482 Isotretinoin   | ()              | (—)                    | ()         | (X)                          |
| 301042 Lead acetate  | ()              | ()                     | ()         | ( <u>X</u> )                 |
| 7446277 Lead phosphare   |                 | ()                     | ()         | ( <del>X</del> )             |
| 520854 Medroxyprogestrone acetate  | ()              | ()                     | ()         | ( <u>X</u> )                 |
| 148823 Melphatan   |                 | ()                     | ()         | ( <u>X</u> )                 |
| 4484208 5-Hethoxypsoralen  |                 | ( <u> </u>             | ()         | ( <u>X</u> )                 |
|  |                 | ()                     | ()         | ( <u>X</u> )                 |
| 75558 2-Hethylaziridine (Propyleneimine)<br>3697243 5-Hethylchrysene   |                 | ()                     | ()         | ( <del>X</del> )             |
| 72333 Hestrangi  | ()              | ()                     | ()         | ( <del>X</del> )             |
|  | ()              | ()                     | ()         | ( <del> X </del> )           |
| 101611 4,41-Hethylene bis(N,N-dimethyl) benzamine 74884 Methyl iodide  | ()              | ()                     | ()         | ( <u>X</u> )                 |
|  | ()              | ()                     | ()         | ( <u>X</u> )                 |
| 66273 Hethyl methanesuifonate  | ()              | ()                     | ()         | ( <del> X </del> )           |
| 129157 Z-Methyl-1-nitroanthraquinone (uncertain purity)  | ()              | ()                     | ()         | ( <u>X</u> )                 |
| 0153493 3-Methylnitrosoaminopropionitrile :  | ( <del></del> ) | ()                     | ()         | ( <u>X</u> )                 |
| 091914 4-(Methylnitrosoamino)-1-(3-pyridyl)-1-butanone (NHK)   | (,              | ()                     | ()         | ( <u>X</u> )                 |
| 70257 N-Methyl N'-nitro-N-nitrosoquanidine   | ()              | ()                     | ()         | ( <u>×</u> )                 |
| 56042 Methylthiouracil   | ()              | ()                     | ()         | ( <u>×</u> )                 |
| _ Mineral oils   | (X)             | ()                     | ()         | ()                           |
| 385855 Mirex   | ()              | ()                     | ()         | ( <u>*</u> )                 |
| 50077 Mitomycin C  | ()              | ()                     | ()         | ( <u>X</u> )                 |
| 315220 Monocrotaline   | ()              | ()                     | ()         | ( <u>×</u> )                 |
| 139913 5-(Morpholinomethyl)-3-(5-nitrofurfurylidene) animo]-2-oxazolidinone  | ()              | ()                     | ()         | ( <u>×</u> )                 |
| 505602 Mustard gas (Sulfur mustard)  | ( )             | ()                     | ()         | ( <u>X</u> )                 |
| 771195 Nafenopin   |                 | (                      | <u>()</u>  | ( <u>x</u> )                 |
| 91598 2-Naphtylamine   |                 | $\langle \Box \rangle$ |            |                              |
| * Nicket compounds   | ( )             | <u>(</u> )             | ( )        | ( <u>X</u> )                 |
| 139139 Witrilotriacetic acid   | ( )             | ( <u></u> )            | ( )        | ( <u>X</u> )                 |
| 502879 5-Nitroacenaphthene   |                 |                        | <u>()</u>  | ( <u>太</u> )<br>( <u>太</u> ) |
| the Otherwise Present category is checked "Yes", please  | list the        | t substa               | nce and sn | eci fu                       |

Substances for Which Production, Use, or Other Presence Must Be Reported

| 1836755 Nitrofen (technical grade)   | CAS<br>Municipe | Substance Name<br>r                             | Use | Produce  | Otherwie:<br>Present | Yot<br>Present a<br>Facility |
|--|-----------------|---|-----|----------|----------------------|------------------------------|
| 1836755 Nitrofen (tecnnical grade)   | 9959            | 2 S-Nitro-o-anisidine                           |     |          |                      |                              |
| S558A0 1-((S-Nitrofurfurylidene)amino]-2-imidazol idinone()  |                 |   |     |          |                      |                              |
| Salass   N-(2-(S-Nicro-2-fury()-2-thiazoty()   acetamide   | 55584           | 1-((5-Nitrofurfurvlidene)aminol-2-imidazot idin |     |          |                      |                              |
| 1116547 N-Nitrosodiethanolamine  | 531828          | 3 N- (4-(5-Nitro-2-furvi)-2-thiazoty/laceramide |     |          |                      |                              |
| 111657 N-Mitrosodiethanotamine   | 5175            | 2 Witrogen mustard                              |     |          |                      |                              |
| TS9740 N-Nitroso-N-ethylurea   |                 |   |     | ******** |                      |                              |
| S15532 N-Nitroso-N-methylurethane (N-Methyl-N-nitrosourethane)   |                 |   |     |          |                      |                              |
| nitrosourethane  6.84935 N-Nitrosomethylvinytamine 6.84935 N-Nitrosonernicotine 6.543558 N-Nitrosoarcosine 6.543558 N-Nitrosoarcosine 6.5256229 N-Nitrosoarcosine 6.6524 Norethisterone 6.65246175 0il Orange SS 6.6224 Norethisterone 6.62442 Phenacetin 6.62442 Phenacetin 6.62442 Phenacetin 6.62442 Phenacetin 6.62443 Phenacetin 6.62444 Phenacetin 6.6463 Phenazopyridine hydrochloride 6.6663 Proceau AR 6.6663 P |                 |   |     |          |                      |                              |
| Company   Comp   |                 |   | \   | ()       | ()                   | ( <del>-X</del> )            |
| 684935 N-Nitroson-Memblyures       (   | 4549400         |   | ( ) | , ,      | , ,                  |                              |
| 15543558 N-Nitrosonornicotine  | 684935          | N-Nitroso-N-methivures                          |     |          |                      |                              |
|  | 4543558         | N-Mitrosonornicorine                            |     |          |                      | ·                            |
| 68224 Norethisterone   | 3256229         | N-Nitrosoarcosine                               |     |          |                      |                              |
| 2546175 Oil Orange SS  |                 |   |     |          |                      |                              |
| 794934 Panfuran S (Dihydroxymethylfuratrizine) 62442 Phenacetin 94780 Phenazopyridine hydrochloride 97410 Phenytoin Polybrominated biphenyls (PBBs) 761533 Ponceau MX S64098 Ponceau 3R G0 G0 G0 G0 G0 G0 G0 G0 G0 G0 G0 G0 G0 G   |                 |   |     |          |                      |                              |
| S2442 Phenacetin   |                 |   |     |          |                      |                              |
| 94780 Phenazopyridine hydrochloride  57410 Phenytoin  Polybrominated biphenyls (PBBs)  564098 Ponceau MX  564098 Ponceau JR  564091 Procarbazine hydrochloride  Progestins  Frogestins  57578 beta-Propiolactone  57578 beta-Propiolactone  51525 Propylthiouracil  50555 Reserpine  51072 Saccharin  94597 Safrole  Shale oils  52274 Sodium o-phenylphenate  Soots  48132 Sterimatocystin  483664 Streptozotocin  96093 Styrene oxide  Talc containing asbestiform fibers  Talc containing asbestiform fibers  Talc Soots  50351 Thalidomide  503551 Thalidomide  503551 Thalidomide  50451 Ada Thalidomide  505551 C  | 62442           | Phenacetin                                      |     |          |                      |                              |
| S7410 Phenytoin  | 94780           | Phenazopyridine hydrochloride                   |     |          |                      | -                            |
| * Polybrominated biphenyls (PBBs) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (  | 57410           | Phenytoin                                       |     |          |                      |                              |
| 761533 Ponceau MX 564098 Ponceau 3R COCOCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC  |                 |   |     |          |                      |                              |
| School   Procentiatine hydrochloride   ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (   | 761533          | Ponceau MX                                      |     |          |                      |                              |
| Progestins   ( ) ( ) ( ) ( ) ( ) ( )   | 564098          | Ponceau 3R                                      |     |          |                      | _                            |
| * Progestins () () () (X)  57578 beta-Propiolactone () () () (X)  51525 Propylthiouracil () () () (X)  50555 Reserpine () () () (X)  51072 Saccharin () () () (X)  94597 Safrole () () () (X)  - Shale oils () () () (X)  532274 Sodium o-phenylphenate () () () (X)  - Soots () () () (X)  548132 Sterimatocystin () () () (X)  53664 Streptozotocin () () () (X)  59093 Styrene oxide () () () (X)  - Talc containing asbestiform fibers () () () (X)  - Tars  50351 Thalidomide () () (X)   | 366701          | Procarbazine hydrochloride                      |     |          | ·                    |                              |
| 57578 Deta-Propiolactone       ( ) ( ) ( ) ( )         51525 Propylthiouracil       ( ) ( ) ( ) ( )         50555 Reserpine       ( ) ( ) ( ) ( )         81072 Saccharin       ( ) ( ) ( ) ( )         94597 Safrole       ( ) ( ) ( ) ( )         - Shale oils       ( ) ( ) ( ) ( )         32274 Sodium o-phenylphenate       ( ) ( ) ( ) ( )         - Soots       ( ) ( ) ( ) ( )         48132 Sterimatocystin       ( ) ( ) ( ) ( )         83664 Streptozotocin       ( ) ( ) ( ) ( )         96093 Styrene oxide       ( ) ( ) ( ) ( )         - Talc containing asbestiform fibers       ( ) ( ) ( ) ( )         - Tars       ( ) ( ) ( ) ( )         50351 Thalidomide       ( ) ( ) ( ) ( )         39651 A All-Middle       ( ) ( ) ( ) ( )  | •               | Progestins                                      |     |          |                      |                              |
| S1525 Propylthiouracil   (   | 57578           | Deta-Propiolactone                              |     |          |                      |                              |
| S0555 Reserpine   (  |                 |   |     |          |                      |                              |
| Store   Stor   |                 |   |     |          |                      |                              |
| 94597 Safrole       () () () ()         - Shale gils       () () () ()         132274 Sodium o-phenylphenate       () () () ()         - Soots       () () () ()         148132 Sterimatocystin       () () () ()         33664 Streptozotocin       () () () () ()         96093 Styrene oxide       () () () () ()         95067 Sulfallate       () () () () ()         - Talc containing asbestiform fibers       () () () () ()         - Tars       () () () () ()         50351 Thalidomide       () () () () ()  | 51072           | Saccharin                                       |     |          |                      |                              |
| - Shate oils (   | 94597           | Safrole .                                       |     |          | <del></del>          |                              |
| Social   | -               | Shate oils                                      |     |          |                      |                              |
| - Soots (  | 32274           | Sodium o-phenylphenate                          |     |          |                      |                              |
| 28132 Sterimatocystin  |                 |   |     |          |                      | -                            |
| S3664 Streptozotocin   | 48132           | Sterimatocystin                                 |     |          |                      |                              |
| 95093 Styrene oxide       () () () (X)         95067 Sulfallate       () () () (X)         - Talc containing asbestiform fibers       () () () (X)         - Tars       () () () (X)         50351 Thatidomide       () () () (X)  | \$3664          | Streptozotocin                                  |     |          |                      |                              |
| 95067 Sulfallate       () () () ()         - Talc containing asbestiform fibers       () () () ()         - Tars       () () () ()         50351 Thatidomide       () () () ()         39551 4 (Lithing facilities)       () () () ()  | 96093           | Styrene oxide                                   |     |          |                      |                              |
| - Talc containing asbestiform fibers () () () () - Tars () () () () () 50351 Thatidomide () () () () ()  | 95067           | Sulfallace                                      |     |          |                      |                              |
| - Tars () () (X)  50351 Thatidomide () () (X)  | - 1             | alc containing asbestiform fibers               |     |          |                      |                              |
| 50351 Thatidomide () () () (_X)  | - 1             | ars   |     | _        |                      |                              |
| SVAST 6 61-Th (mail mail t   |                 |   |     |          |                      |                              |
|  | 39651 4         | ,41-Thfodianiline                               |     |          |                      |                              |

| Substances for Which Production | , Use, | or Other | Presence | Hust | Ве | Reported |  |
|---------------------------------|--------|----------|----------|------|----|----------|--|
|---------------------------------|--------|----------|----------|------|----|----------|--|

| TAS<br>Number | Substance Name  | Use       | Produce                | Othera or<br>Present | Yot<br>Present a<br>Pacility |
|---------------|---|-----------|------------------------|----------------------|------------------------------|
| 171/201       | Thorium dioxide   | Yes       | Yes                    | Yes                  | NO                           |
|               |   | ()        | ()                     | ()                   | (X)                          |
|               | Tobacco products, smokeless   | ()        | ()                     | ()                   | ( <u>×</u> )                 |
|               | alpha-chtorinated Toluenes  | ()        | ( <del></del> )        | ()                   | ( <del>_X_</del> )           |
|               | o-Toluidine   |           | ()                     | ()                   | (X)                          |
|               | o-Toluidine hydrochloride   | ()        | ()                     | ()                   | (本)                          |
|               | Toxaphene (polychlorinated camphenes)   |           | ()                     | ()                   | ( <u>×</u> )                 |
|               | Treosulfan  |           | ()                     | ()                   | ( <del> X </del> )           |
|               | Tris(1-aziridinyl) phosphine sulfide (Thiorepa)   |           | ()                     | (- <u> </u>          | ( <u>X</u> )                 |
|               | <pre>Trp-P-1 (3-amino-1,4-dimethy(-5H-pyrido(4,3-b) indo(e)</pre>                               | ()        | ()                     | ()                   | ( <u>X</u> )                 |
| 2450071       | <pre>Trp-P-2 (3-amino-1,4-methyl-5H-pyrido(4,3-b) indole)</pre>                                 | ()        | ()                     | ()                   | ( <u>×</u> )                 |
| 72571         | Trypan blue   | ( )       | ( )                    | ( )                  | (X)                          |
| 66751         | Jracil mustard  | ( )       | ( )                    | <u>()</u>            | ( <u>x</u> )                 |
| 99661         | /alproate   | ( )       | ( )                    | $(\overline{})$      |                              |
|               | /inyl bromide   | (         | ( )                    | ()                   | ( <del>_X</del> )            |
|               | <i>d</i> arfarin  | ()        | $\langle \Box \rangle$ | (;                   | ( <u>×</u> )<br>( <u>×</u> ) |
| the Oti       | erwise Present category is checked "Yes", please of the substance's presence in the space provi | e list th | at subst               | ance and s           | pecify<br>al sheets          |

<sup>\* =</sup> Denotes a chemical catagory.

CAS Number = Chemical Abstract Service Number

MSDS

# MATERIAL SAFETY DATA SHEET

# CORPORATE RESEARCH & DEVELOPMENT

SCHENECTADY, N. Y. 12305

Phone: (518) 385-4085

DIAL COM: 8\*235-4085



No. 314

TRICHLOROTRIFLUOROETHANE

Date July 1979

| SECTION I. MATERIAL IDENTIFICAT  | ION                     |                                |                         |                  |                      |  |
|--|-------------------------|--------------------------------|-------------------------|------------------|----------------------|--|
| MATERIAL NAME: STRICHLOROTRIFLUOROETHAN  | الع نعضت علا            | Fluoroethane                   | FClacco                 | Fa.              |                      |  |
| GE Materials D5B77 and D5B81A, CAS   | 5 000 076               | 6 131                          | -                       | 1121             |                      |  |
| HANUFACTURER: Available from many sur  | ppliers                 |                                |                         | ering.           | 270 T                | į                                      |
| TRADE NAMES: ARKLONE P-113, BLACOTRON GENETRON 113, GENESOLVED 115 TRON  | NETF FRE                | EONETF SFREO                   | UCON 1                  | GENTI            | 31R-1,               |  |
| SECTION II. INGREDIENTS AND HAZ  |                         |                                | x                       |                  | ZARD D               | ATA                                    |
| Trichlorotrifluoroethane   | •                       |                                | ca 100∺                 |                  | WA 1000<br>mg/m3     | ppm or                                 |
|  |                         |                                |                         |                  | , inhala             |  |
| *Material is commercially available i  | o refrice               | rant and                       |                         |                  | o 4500 p<br>ral nerv |  |
| high purity solvent grades. Stabi  | lizers ar               | e not                          |                         | •                | stem)                |  |
| normally used.   |                         |                                |                         | Rat. o           | oral LDL             |  |
|  |                         |                                | •                       |                  | ng/kg                |  |
| SECTION III. PHYSICAL DATA   |                         |                                |                         |                  |                      |  |
| Eoiling point, 1 atm, deg F (C)  | 117.6 (47               |                                | ic gravit               | y (20/           | 4C)                  | 1.57                                   |
| The state of the s | 285                     |                                | les, % -                |                  | tonex1)              | ca 100<br>0.45                         |
| Vapor density (Air=1)  | ca 6<br>0.028           |                                | acion iac<br>19 point,  |                  |                      | -35 to                                 |
|  |                         |                                |                         | •                |                      | -36                                    |
| Appearance & odor: Clear, colorless  | liouid wi               |                                | ılar weigh<br>ethereal  |                  | hose re              | 187.39<br>cognitio                     |
| threshold (100% of test panel for U  | CON-113)                | is 135 ppm 1                   | n air. (                | Vapor            | may be               | detected                               |
| helew 50 ppm. unfaticued.) SECTION IV. FIRE AND EXPLOSION  | DATA                    |                                |                         |                  | LOWER                | UPPER                                  |
| Flash Point and Method   Autoigniti  |                         | Flammabilit                    | v Limits                | ln Air           | CONCK                | OF CK                                  |
| None None  |                         | Nor                            |                         |                  | -                    | -                                      |
| Extinguishing media: Use that which  | is approp               | riate for the                  | ne surrour              | ding f           | ire.                 | . Elabear                              |
| This is a nonflammable material; howe should use self-contained breathing  | ver, when<br>Lapparatu  | n It Is Invol<br>Is for protec | ived in a<br>ction agai | nst su           | ffocati              | ng vapor                               |
| and toxic and corrosive decompositi  |                         |                                |                         |                  |                      | •                                      |
| ,  |                         |                                |                         |                  |                      |  |
|  |                         |                                |                         |                  |                      |  |
| SECTION V. REACTIVITY DATA   |                         |                                |                         |                  |                      | ······································ |
| Trichlorotrifluoroethane is a stable it does not undergo or cause hazard tion begins at about 250 C to give are toxic and corrosive.   | dous polym<br>halogen a | merization.<br>acids, halogo   | Thermal-dens, and d     | xidati<br>arbony | ve dec∞<br>I halid   | mposi-<br>es which                     |
| It can react violently with active me<br>finely divided aluminum, zinc, magne<br>high temperature.   |                         |                                |                         |                  |                      |  |



# MATERIAL SAFETY DATA SHEET

) 2 11-15-85

| CHEMICAL NAME AND SYNONYMS:    | -           |  | HEAD       |
|--------------------------------|-------------|--|------------|
| CHEMICAL FAMILY:               |             | TRADE NAME: 15120 VAPOR DEGREASING           |            |
| FORMULA                        | P.O.T. SH   | D.O.T. SHIPPING CLASS: NON-HAZARDOUS         | <br>       |
|                                | I. PHYSI    | . PHYSICAL DATA                              | EYE        |
| BOILING POINT (F)              | 120         | SPECIFIC GRAVITY (WATER . 1) 1.26            | '<br>      |
| VAPOR PRESSURE (mmilg 8) 20°C  | 380         | PERCENT VOLATILE (BY YOLUME) 100             | ¥<br> <br> |
| VAPOR DENSITY (AIR . 1)        | 4.6         | EVAPORATION RATE ( CC1, 1) 1.74              | ¥          |
| SOLUBILITY IN WATER (x by wi.) | МО          |  |            |
| APPEARANCE AND DOOR            | CLEAR, COL  | CLEAR, COLORLESS LIQUID, CHARACTERISTIC ODOR |            |
|                                | 11. HAZARDO | 11. HAZARDOUS INGREDIENTS                    |            |

| MATERIAL                   | ĸ  | TLV ( ppm ) | C.A.S. REGISTRY 1 |
|----------------------------|----|-------------|-------------------|
| 1 SOPROPYL ALCOHOL         | 12 | 400         | 67-61-0           |
| METHYL CHLOROFORM          | 09 | 350         | 71-55-6           |
| TRICHLUROTRIFLUOROETHANE   | 6  | 1000        | 76-13-1           |
| TRICHCOROMONOFLUOROMETHANE | 91 | 1000        | 75-69-4           |
| INHIBITORS                 | £  | N/A         | N/A               |
|                            |    |             |                   |
|                            |    |             |                   |
|                            |    |             |                   |

|                                       | 111. F | III. FIRE AND EXPLOSION HAZARD DATA   | DSION HAZAR                                    | DATA   |   |
|---------------------------------------|--------|---|--|--|---|
| FLASH POINT ( T.O.C.)                 | NONE   | FLAMMABILITY LIMITS   | LIMITS<br>volume)                              | LOWER: N/A   | UPPER: N/A  |
| , ,                                   | WATER  | CARBON<br>POXIDE<br>PIOXIDE   |  | ALCOHOL FOAM   | DRY CHEMICAL  |
| SPECIAL FIRE FIGHTING PROCEDURES      | USE    | USE WATERSPRAY CONTROL VAPORS   | TO COOL E1                                     | RE-EXPOSED   | USE MATERSPRAY TO COOL FIRE-EXPOSED CONTAINERS AND CONTROL VAPORS   |
| UNUSUAL FIRE AND<br>EXPLOSIQH HAZARDS | SEAL   | SEALED CONTAINERS COULD EXPLODE DURING FIRE. RESULTING IN HIGHLY TOXIC FUMES. | RS COULD E                                     | XPLODE DURII<br>FUMES.   | NG FIRE,  |
| HFPA RATING:                          |        | $\triangle$   | The informati<br>considered ac<br>ne warrenty, | The information contained herein is based on deconsidered accurate and given in good feith but ne warranty, expressed or implied, is made. | The information contained herein is based on date considered accurate and given in good faith but ne warranty, expressed or implied, is made. |

| LITTON/KESTER SOLDER | 515 EAST TOUHY AVENUE | DES PLAINES, IL 60018 | EMERGENCY PHM (312) 297-1600 |
|----------------------|-----------------------|-----------------------|------------------------------|
|                      |                       |                       | EMERG                        |

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21.

# IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 500ppm

EFFECTS OF OVER.EXPOSURE: DIZZINESS, NARCOTIC IN HIGH CONCENTRATIONS. MAY CAUS HEADACHE AND DROWSINESS.

|             | . EMERGENCY AND FIRST AID PROCEDURES.                                  |
|-------------|--|
| TE CONTACT: | re contact: flush with plenty of water.                                |
| IN CONTACT: | IN CONTACT: MASH WITH SOAP AND WATER. REPLACE HOISTURE WITH HAND LOTIO |
| HALATION:   | HALATION: REHOVE TO FRESH AIR.   |
| GESTION:    | INDUCE VOMITING, CALL A PHYSICIAN.                                     |

Y. REACTIVITY DATA

|                                       | UNSTABLE   |       | 9        | Ē   | CONDITIONS TO AVOID:  | •  |         |      |       |   |      |
|---------------------------------------|------------|-------|----------|-----|---|----|---------|------|-------|---|------|
| STABILITY:                            | STABLE X   | ×     |          |     |   |    |         |      |       |   |      |
| INCOMPATIBILITY (MATERIALS TO AVOID): | Y (WATERIA | 2     | O A VOIC | ڃَ  |   |    |         |      |       |   |      |
| HAZARDOUS DEC                         | OMPOSITION | P.80  | DUCTS    | 3   | HAZARDOUS DECOMPOSITION PRODUCTS: MAY DECOMPOSE IN CONTACT WITH FLAME TO FORM | Z  | CONTACT | WITH | FLAME | 5 | FORM |
| PHOSGENE AND HYDROCHLORIC ACID.       | HYDROCI    | 11.0R | N OIL    | 01: | -   |    |         |      |       |   |      |
| HA7ABOOKS                             | MAY OCCUR  | ð     |          |     | CONDITIONS TO AVOID:  | ¥  | OID:    |      |       |   |      |
| POLYMERIZATION: WILL HOT OCCUR X      | אור א      | 5     | 300      | ×   |   |    |         |      |       |   |      |
|                                       |            |       | ۷۱.      | ᆵ   | VI. SPILL OR LEAK PROCEDURES  | 20 | OURES   |      |       |   |      |

|   |                   | #         |                         |
|---|-------------------|-----------|-------------------------|
| STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WIPE UP INMEDIATELY BY SOAK! | RELEASED OR SPILI | LED:WIPE  | UP IMMEDIATELY BY SOAK! |
| UP INTO ABSORBENT MATERIAL, AVOID BREATHING VAPORS. REMOVE SOAKED CLOTHING              | VOID BREATHING    | . VAPORS. | REMOVE SOAKED CLOTHING  |
| WASTE DISPOSAL METHOD: ACCORDING TO LOCAL REGULATIONS, USUALLY BY PYROLYSIS             | TO LOCAL REGU     | LATIONS,  | USUALLY BY PYROLYSIS    |

| RESPIRATORY PROTECTION (SPECIFY TYPE): USUALLY NOT REQUIRED  LOCAL EXHAUST: REMOVE FUMES/ VAPORS FROM BREATHING ZONE  VEHTILATION  MECHANICAL (GENERAL):  PROTECTIVE GLOVES: NEOPRENE  OTHER:  OTHER:  PROTECTIVE GLOVES: NEOPRENE  OTHER:  PROTECTIVE GLOVES: NEOPRENE  OTHER:  PROTECTIVE EQUIPMENT: USE A RESPIRATOR WHEN ENTERING VAPOR DEGREASING  OTHER PROTECTIVE EQUIPMENT: USE A RESPIRATOR WHEN ENTERING VAPOR DEGREASING  OTHER PROTECTIVE EQUIPMENT: USE A RESPIRATOR WHEN ENTERING VAPOR DEGREASING  OTHER PROTECTIVE EQUIPMENT: USE A RESPIRATOR WHEN ENTERING VAPOR DEGREASING  OTHER PROTECTIVE EQUIPMENT: USE A RESPIRATOR WHEN ENTERING VAPOR DEGREASING  OTHER PROTECTIVE EQUIPMENT: USE A RESPIRATOR WHEN ENTERING VAPOR DEGREASING  OTHER PROTECTIVE EQUIPMENT: USE A RESPIRATOR WHEN ENTERING VAPOR DEGREASING  OTHER PROTECTIVE EQUIPMENT: USE A RESPIRATOR WHEN ENTERING VAPOR DEGREASING  OTHER PROTECTIVE EQUIPMENT: USE A RESPIRATOR WHEN ENTERING VAPOR DEGREASING  OTHER PROTECTIVE EQUIPMENT: USE A RESPIRATOR WHEN ENTERING VAPOR DEGREASING  OTHER PROTECTIVE EQUIPMENT: USE A RESPIRATOR WHEN ENTERING VAPOR DEGREASING  OTHER PROTECTIVE EQUIPMENT: USE A RESPIRATOR WHEN ENTERING VAPOR DEGREASING  OTHER PROTECTIVE EQUIPMENT: USE A RESPIRATOR WHEN ENTERING VAPOR DEGREASING  OTHER PROTECTIVE EQUIPMENT: USE A RESPIRATOR WHEN ENTERING VAPOR DEGREASING  OTHER PROTECTIVE EQUIPMENT: USE A RESPIRATOR WHEN ENTERING VAPOR DEGREASING |
|--|
| A LA   |

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: AVOID EYE AND SKIN CONTACT.
AVOID BREATHING VAPORS, STORE AT TENPERATURE NOT EXCEEDING 90°F.

QIHER PRECAUTIONS: OPEN CONTAINERS CAREFULLY BECAUSE OF INTERNAL PRESSURE BUILDUP.

566.11.81

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# 4086-92750

# I - PRODUCT IDENTIFICATION

| COMEANY_NAME:Calson_Vestal_Laborator  | cies          |         |                                   |  | . Des aut des Carris de les autons de la Carris de la Car |
|---|---------------|---------|-----------------------------------|--|--|
| ADDRESS: X501 Eage Avenue. St. Louis.   |               |         | Fracti                            | ict No.:   | 1070   |
|   |               |         |                                   |  |  |
| Synonyms: 1,1,1-TrichLoroethane-Cleane  | er and Degrea | aser    | BOLC:                             | € 2725   |  |
| Shipping Description: Compound, Cleani  | ng,Scouring ( | or Wash | ing ì                             | 4.0.I. Li  | quid   |
| II - HAZARDOUS INGREDIE   | ENTS OF MIXTU | JRES    | · · · · · · · · · · · · · · · · · | ar basın <del>sanlı</del> sımlı gü üz düvin sün ir filmin gü üz sa |  |
| 16IEBIAL: (C65%)  |               | % By    | Wt.                               | TLY  | I_EEL  |
| .,1,1-Trichloroethane*(71-55-6)   | •             | 1. C    | 0                                 | 350ppm   | mqq028   |
| FACGIH Short-Term Exposure Limit;450pp  | o.w ∙         |         |                                   |  |  |
| III- PHYSICAL   | DATA          |         |                                   |  |  |
| Vapor Pressure, mm Hg: 100 @ 20C   Vapor Density (Air=1)60-90F: 4.55   Vaporation Rate(ether=1): N/A   Volatile by wt 100   Solution N/A   PH as Distributed: N/A   Appearance: Clear, Colorless Liquid Odor: Mild Chloroform-Like Odor |               |         |                                   |  |  |
| IV - FIRE AND EXPLOSION   |               |         |                                   |  |  |
| Ch Point F: N/A   Flammable Limits: N/A   |               |         |                                   |  |  |
| xtinguishing Media: Waterfog, if involved in fire use water spray to cool exposed containers.   |               |         |                                   |  |  |
| pecial Fire Fighting Procedures: Exercise caution when fighting any chemical fire.Respiratory protection is essential.  |               |         |                                   |  |  |
| Inusual Fire and Explosion Hazards: When emit highly toxic and irritating fu  | 1we2 +        |         |                                   |  | •  |
| V - REACTIVITY  | PATA          |         |                                   |  |  |
| Stability - Conditions to avoid: Extre  | eme heat,fire | condi   | tions                             |  |  |
| Incompatibility: Strong oxidizers; use containers.  | e or storage  | In alu  | տքոստ                             |  |  |
| Mazardous Decomposition Products: Hyd<br>phosgene upon heat decomposition.  |               | de,chl  | or ine                            | and  |  |
| Conditions Contributing to Hazardous F<br>polymerize.   | olymerizatio  | n: Fr   |                                   |  |  |
| <b>S</b> 3  |               |         | ·- (12 m                          | ndid on P  | Western 1913   |

# EMISSION QUANTIFICATION METHODS SUMMARY FORM



# EMISSION QUANTIFICATION METHODS

# SUMMARY FORM

| EMISSION    | ASSOCIATED  | SUBSTANCE        | METHOD OF      | SOURCE TEST |
|-------------|-------------|------------------|----------------|-------------|
| POINT       | DEVICE      | QUANTIFIED       | QUANTIFICATION | METHOD      |
| 90001, F1   | 1           | Chromium -       | 6              | N/A         |
|             | (Permit #'s | 18540299         |                |             |
|             | 142251,     |                  |                |             |
|             | 142253)     |                  |                |             |
| 90002,90003 | 2           | Chromium -       | 6              | N/A         |
| F2          |             | 18540299         |                |             |
| F3          | 3           | Chromium -       | 6              | N/A         |
|             |             | 18540299         |                |             |
| F4          | 4           | Chromium -       | 6              | N/A         |
|             | (Permit #   | 18540299         |                | N/A         |
|             | 142252)     |                  |                |             |
| F5          | 5           | Chromium -       | 6              | N /A        |
|             |             | 18540299         | · ·            | N/A         |
| F6          | 6           | Chromium -       | 6              | N / A       |
|             |             | 18540299         |                | N/A         |
| F7          | 7           | Hydrochloric     | 10             | 11 / 10     |
|             |             | Acid - 7647010   | 10             | N/A         |
| F8          | . 8         | 60               |                |             |
| 10          | 0           | Copper - 7440508 | 6              | N/A         |
| F9          | 9           | Methyl           | 7              |             |
|             | (Permit #   | Chloroform -     |                | N/A ·       |
|             | P43029)     | 71556            |                |             |
| F10         | 10          | Fluorocarbons    | 7              | N/A         |
|             | (Permit #   | 1105             |                | N/A         |
|             | M60720)     | 1103             |                |             |
|             |             |                  |                |             |
|             |             |                  |                | <u> </u>    |



THIS FORM MAY BE DUPLICATED AS NECESSARY

# EMISSION QUANTIFICATION METHODS

# SUMMARY FORM

| EMISSION   | ASSOCIATED | SUBSTANCE       | METHOD OF      | SOURCE TEST                                      |
|------------|------------|-----------------|----------------|--|
| POINT      | DEVICE     | QUANTIFIED.     | QUANTIFICATION | метнор   |
| 90004, F11 | 11         | Silica -        | 11             | N/A  |
|            | (Permit #  | 1175            |                |  |
|            | P20643)    |                 |                |  |
| F12        | 12         | Chlorine -      | 5              | N/A  |
|            |            | 7782505         |                |  |
| F13        | 13         | Benzene - 71432 | 6              | N/A  |
|            | (Permit #  | Toluene -       |                |  |
|            | P 5144)    | 108883          | -              |  |
|            |            | Formaldehyde -  |                |  |
|            |            | 50000           |                |  |
| 90005, F14 | 14         | Fluorocarbons   | 7              | N/A  |
|            | (Permit #  | 1105            | •              |  |
|            | P36679 )   |                 |                |  |
| F15        | 15         | Methyl          | 7              | N/A  |
|            | (Permit #  | Chloroform -    |                |  |
|            | M 51995)   | 71556           |                |  |
| F16        | 16         | Methyl          | 7              | N/A  |
|            |            | Chloroform -    |                | <del>                                     </del> |
|            | ·          | 71556           |                |  |
| F17        | 17         | Chlorine -      | 6              | N/A  |
|            |            | 7782505         |                |  |
| F18        | 18         | Fluorocarbons   | . 7            | N/A  |
| . 10       | 10         | 1105            | ,              | iii ii ii ii ii ii ii ii ii ii ii ii ii          |
| F19        | 19         | Methyl          | 7              | N/A  |
|            |            | Chloroform -    |                | 11//1  |
|            |            | 71556           |                |  |
|            |            | , 1330          |                |  |
|            |            |                 |                |  |

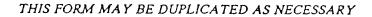




# EMISSION QUANTIFICATION METHODS

# SUMMARY FORM

| EMISSION     | ASSOCIATED                              | SUBSTANCE    | METHOD OF      | SOURCE TEST |
|--------------|---|--------------|----------------|-------------|
| POINT        | DEVICE                                  | QUANTIFIED   | QUANTIFICATION | метнор      |
| 90007, F20   | 20                                      | Toluene -    | 7              | N/A         |
|              | (Permit #                               | 108883       |                |             |
|              | M 42415)                                |              |                |             |
|              |   |              |                |             |
| F21          | 21                                      | Methyl       | 7              | N/A         |
|              |   | Chloroform - |                |             |
|              |   | 71556        |                |             |
| 90008, 90009 |   | Lead -       | 6              | N/A         |
| F22          | (Permit #                               | 7439921      |                |             |
|              | M 60608)                                |              |                |             |
|              |   |              |                |             |
| 90002,90003  | 23                                      | Cadmium      | 6              | N/A         |
| F23          |   | 7440439      |                |             |
|              |   |              |                |             |
|              |   |              | ·              |             |
|              |   |              |                |             |
|              |   |              |                |             |
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|              | ·····                                   |              |                |             |
|              | ****                                    |              |                |             |
|              |   |              |                |             |
|              |   |              |                |             |



# **Air Toxics Inventory Report**

# **ALLIED-SIGNAL AEROSPACE COMPANY Bendix Electrodynamics Division**

Submitted To:

South Coast Air Quality Management District 9150 Flair Drive El Monte, CA 91731

June 1, 1990

## Submitted By:

Allied-Signal Aerospace Company Bendix Electrodynamics Division 11600 Sherman Way North Hollywood, CA 91605-5887

In Consultation With:

Dynamac Corporation 5701 Lindero Canyon Road Westlake Village, CA 91362 (818) 597-1061

# SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

# 9150 Flair Drive El Monte, CA 91731

# AB 2588 AIR TOXICS INVENTORY REPORT APPLICATION FORM

| Company Name:           | Allied-Signal Ae                          | rospace Company                  |
|-------------------------|---|----------------------------------|
|                         |   |                                  |
| Mailing Address:        | 11600 Sherman Wa                          | У                                |
|                         |   |                                  |
|                         | North Hollywood,                          | CA 91605-5887                    |
|                         |   |                                  |
|                         |   |                                  |
| Facility Address:       | Same as above                             |                                  |
| ,                       |   |                                  |
|                         |   |                                  |
|                         |   | _                                |
| Facility AQMD ID #:     | 11217                                     | (From your plan approval letter) |
|                         |   |                                  |
| Contact Person (Com     | oany Official):                           | Danilo Gutierrez                 |
| Telephone #:            | sam, emolal,                              | (818) 503-3546                   |
| ·                       |   |                                  |
| Report Preparer (If no: | t a Company Official):                    | Stephen Roe, Dynamac Corporation |
| Felephone #:            |   | (916) 363-1695                   |
|                         |   |                                  |
| Signature of the Repor  | t Preparer:                               | Typica Koe                       |
| );                      | N. C. C. C. C. C. C. C. C. C. C. C. C. C. |                                  |
| signature of Hesponsil  | ble Company Official:                     |                                  |

| EM | ISSION |
|----|--------|
| YE | AR     |
| 19 | 89     |

# AIR TOXICS EMISSION DATA SYSTEM REVIEW & UPDATE REPORT FACILITY DESCRIPTION

| FC | (A | Л |
|----|----|---|
| F  | A  | C |

| FACILITY DATA  | FOR OFFICE USE ONLY |
|--|---------------------|
| COMPANY NAME   | COUNTY              |
| $A_{\downarrow}L_{\downarrow}L_{\downarrow}I_{\downarrow}E_{\downarrow}D_{\downarrow}- S_{\downarrow}I_{\downarrow}G_{\downarrow}N_{\downarrow}A_{\downarrow}L_{\downarrow}- A_{\downarrow}E_{\downarrow}R_{\downarrow}O_{\downarrow}S_{\downarrow}P_{\downarrow}A_{\downarrow}C_{\downarrow}E_{\uparrow}- C_{\downarrow}O_{\downarrow}- $   |                     |
|  | FACILITY ID         |
| ADDRESS  |                     |
| 1 1 6 0 0   S   H   E   R   M   A   N   W   A   Y  |                     |
| CITY ZIP CODE  |                     |
| N: 0: R: T: H:   H: 0   L   L   Y   W   0   0   D  | ACTION CODE:        |
| RIO KTIN MOLE LATING ON THE STATE OF THE STA |                     |
|  | DISTRICT:           |
|  |                     |
|  |                     |
| CONTACT PERSON   | AIR BASIN CODE      |
| D A N I L O GUT I E R R E Z  |                     |
| TELEPHONE  | CITY CODE           |
| 8 1:8  5:0 3':3:5:4 6  | (OPTIONAL)          |
|  |                     |
| FACILITY SIG NUMBER OF EMPLOYEES   | AQCR                |
| 3 7 6 9  | IDPTIONAL)          |
|  | SUBCOUNTY ID        |
|  |                     |
| MAILING ADDRESS DATA   |                     |
| SAME AS ABOVE  | FACD1 (OPTIONAL)    |
|  |                     |
| ACORES   | FACDZ (OPTIONAL)    |
| ACORESS  |                     |
|  |                     |
| STATE  | UTM ZONE            |
|  |                     |
|  | UTM EAST            |
| ZIP CODE   | UTM EAST            |
|  |                     |
| ATTENTION  | UTM NORTH           |
|  |                     |
|  |                     |
|  |                     |

NAME: Steve Roe

DATE: 4/18/90

B - 1

ARB/FAC: 08028

### **CONTENTS**

| ABBREVIATIONS |   |    |   |   |            |            |     |     |        |     | -   |
|---------------|---|----|---|---|------------|------------|-----|-----|--------|-----|-----|
| ARREVIALILIA  |   | n  | n | ח | T-1        | $\pi$      | A - | rī. | $\sim$ | NΤ  | С   |
|               | м | ·M | М | ĸ | <b>-</b> 1 | <i>-</i> - | ~   |     | . ,    | IV. | . ٦ |

- I. SUMMARY
- II. PLAN MODIFICATIONS
- III. FACILITY EMISSIONS SUMMARY FORM
- IV. CORE REPORTING FORMS
- V. SUPPLEMENTAL PROCESS PARAMETER FORMS
- VI. FACILITY DIAGRAM AND PLOT PLAN

APPENDIX A EMISSION CALCULATIONS

APPENDIX B SUPPORTING DOCUMENTATION

### **ABBREVIATIONS**

### ABBREVIATIONS USED IN QUANTIFYING AIR RELEASES

MHE Maximum Hourly Emissions

AAE Average Annual Emissions

EF (Substance) Emission Factor

HOP Daily Hours of Operation

DOP Days of Operation Per Year

%S Mass of Substance To Be Quantified/Total Mass of Mixture

SQFT Square feet

MSDS Material Safety Data Sheet

cfm or CFM Cubic feet per minute

fpm or FPM Feet per minute

ht Height

d Diameter

Gas temperature

Q Gas flow rate

Gas velocity

VOC Volatile organic compounds

### ADDITIONAL ABBREVIATIONS AND ACRONYMS

CAS No. Chemical Abstract Service Number

ARB Air Resources Board

CARB California Air Resources Board

AQMD Air Quality Management District

APCD Air Pollution Control District

AB2588 Assembly Bill 2588

ATIP Air Toxics Inventory Plan

ATIR Air Toxics Inventory Report

## I. SUMMARY

This document is the Air Toxics Inventory Report (ATIR) for Allied-Signal Aerospace Company, Bendix Electrodynamics Division, an aerospace facility located at 11600 Sherman Way, North Hollywood, California. The report is being submitted to the South Coast Air Quality Management District (the District) to comply with California Health and Safety Code Section 44300 et seq.

This ATIR quantifies the emissions from the sources specified in the Allied-Signal Aerospace Company, Bendix Electrodynamics Division Air Toxics Inventory Plan (ATIP) that was approved by the District in February 1990.

Summary Table I-1 presents the ID numbers that were assigned to the emission points and devices in the Plan and the corresponding new five-digit ID numbers reassigned in this Report.

Section II indicates the differences between the approved Plan and this Report.

Sections III through VI, respectively, contain a facility emissions summary form, the required core reporting forms in sequence by device number, the supplemental process parameter forms, and facility diagram(s) and plot plan.

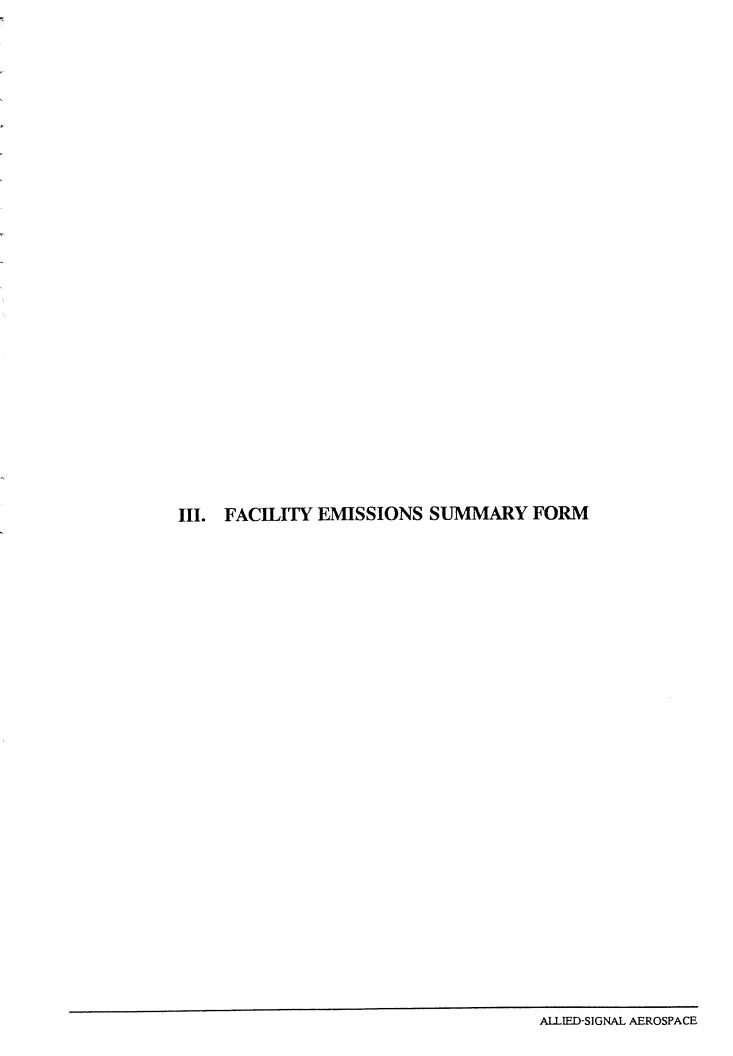
# Summary Table 1 - Reassigned ID Numbers

| Emission Points and Devices | Previously Assign ATIP ID Num | gned Reassigned<br>ber ATIR ID Number |
|-----------------------------|-------------------------------|---------------------------------------|
| Devices                     | 1                             | 70001                                 |
|                             | 2                             | 70002                                 |
|                             | 3                             | 70003                                 |
|                             | 4                             | 70004                                 |
|                             | 5                             | 70005                                 |
|                             | 6                             | 70006                                 |
|                             | 7                             | 70007                                 |
|                             | 8                             | 70008                                 |
|                             | 9                             | 70009                                 |
|                             | 10                            | 70010                                 |
|                             | 11                            | 70011                                 |
|                             | 12                            | 70012                                 |
|                             | 13                            | 70013                                 |
|                             | 14                            | 70014                                 |
|                             | 15                            | 70015                                 |
|                             | 16                            | 70016                                 |
|                             | 17                            | 70017                                 |
|                             | 18                            | 70018                                 |
|                             | 19                            | 70019                                 |
|                             | 20                            | 70020                                 |
|                             | 21                            | 70021                                 |
|                             | 22                            | 70022                                 |
|                             | 23                            | 70023                                 |
| Emission Points             | 90003, 90005 & 90011          | Emissions not reportable              |
|                             | 90004                         | 80004                                 |
|                             | 90007                         | 80004                                 |
|                             | 90008 & 90009                 | 80008                                 |
|                             | F9                            | 80009                                 |
|                             | F13                           | 90011                                 |
|                             | F15                           | 80012                                 |

# II. PLAN MODIFICATIONS

Additional information was obtained and calculations were completed for each substance from the devices listed in the ATIP (see Appendix A). The following information summarizes the differences between the information presented in the inventory plan and the information in the core reporting forms of this report.

| Device/Emission Point   | Comment  |
|---|--|
| 70001   | Source test data used rather than Emission Factor.   |
| 70006   | In order to improve emission estimation, the ARB emission factor for chrome plating was used instead of the proposed EPA emission factor.  |
| 70002, 70006, 70007,<br>70008, 70011, 70013,<br>70014, 70020, 70022,<br>70023 | Emission calculations for these devices show that the emissions are below the applicable degree of accuracy. See Appendix A for the individual calculations. Where applicable, the substances emitted have been included on Form S-UP. |
| 70009   | This device is vented and has been assigned vent #80009.   |
| 70010   | Methyl chloroform, <u>not</u> fluorocarbons, is used as the solvent in this degreaser. Emissions of methyl chloroform have been calculated.  |
| 70014   | Toluene, <u>not</u> fluorocarbons, is the most common solvent in the paint booth. Toluene emissions are quantified in Appendix B and are below the degree of accuracy.   |
| 70015   | This degreaser is vented and has been assigned vent #80012.  |
| 70012, 70017  | There are a total of 12 cooling towers, 10 of which are in operation. Device #70012 represents 8 towers and Device #70017 represents 4 towers.   |
| 70018   | Methyl chloroform emissions for this device will be included with the calculations for emissions from Device #70009.   |
| 70019   | This device was not used in 1989.  |



# FACILITY EMISSION SUMMARY FORM

COMPANY Allied-Signal Aerospace Company

AQMD FACILITY ID # 11217

| APPENDIX A-I SUBSTANCES |          | Establista etablista (establista (establista (establista (establista (establista (establista (establista (estab | TYWIDE       | OPERATING |         |  |
|-------------------------|----------|---|--------------|-----------|---------|--|
| AIR TOXIC NAME          | CAS NO.  | EMIS  | SIONS        | SCHEDULE  |         |  |
| ·                       |          | MAX LBS / HR  | AVG LBS / YR | HRS / DAY | DAYS/YR |  |
| Hexavalent Chromium     | 18540299 | 0.012   | 3.54         | 11        | 350     |  |
| Methyl Chloroform       | 71556    | 10.4  | 51011        | 16        | 250     |  |
| Chlorine                | 7782505  | 0.03  | 105          | 24        | 365     |  |
| Fluorocarbons           | 1105     | 0.21  | 99.4         | 2         | 250     |  |
|                         |          |   |              |           |         |  |
|                         |          |   |              |           |         |  |
|                         |          |   |              |           |         |  |
|                         |          |   |              |           |         |  |
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|                         |          |   |              |           |         |  |
|                         |          |   |              |           |         |  |

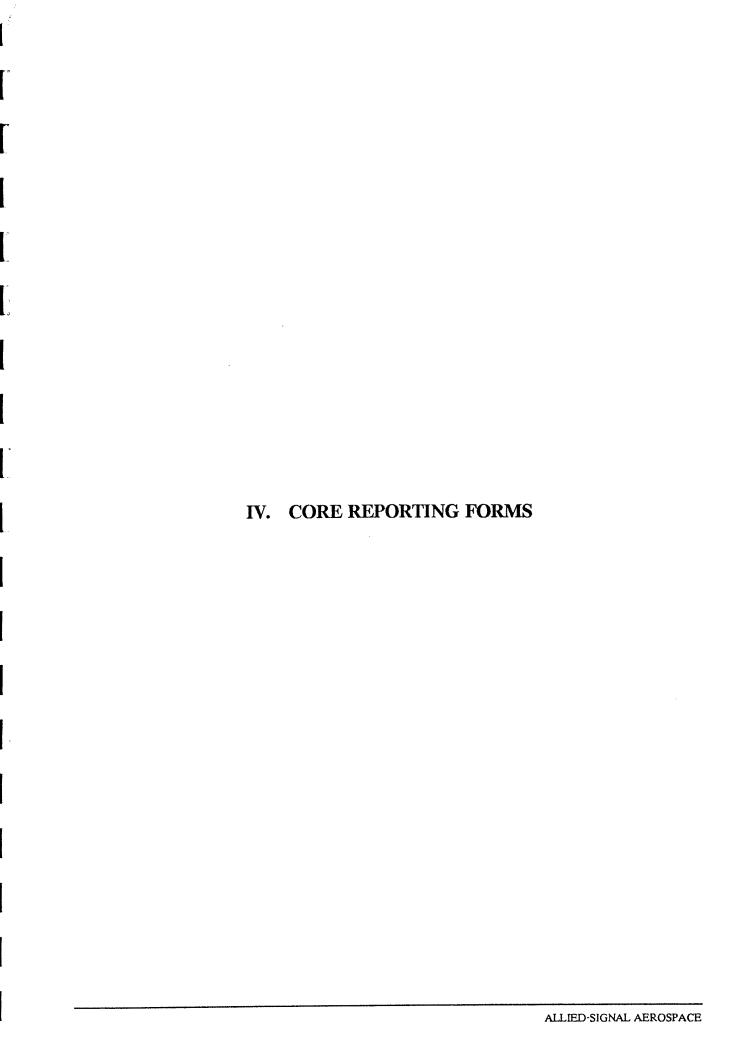
THE INVENTORY SHOULD BE FOR THE PERIOD JAN 1, 1989 THRU DEC 31 1989.

THIS FORM MUST BE FILLED OUT AND SUBMITTED WITH THE REPORT

THIS FORM MAY BE DUPLICATED AS NECESSARY

AB 2588 ATIR 89





| EMISSION<br>YEAR<br>1989 | AIR                                  | roxics   | EMISSION D  | ATA SYSTI<br>STACK DA  |   | UPDATE REPOR   | RT.              | STK              |
|--------------------------|--------------------------------------|--|---|--|---|--|------------------|------------------|
| FOR                      | OFFICE                               | USE C  | DNLY  | COUNTY ID.   | FACILIT   | Y ID: 11111  |                  |                  |
|                          | DO NOT DESC CODE  1 2 3 4            | AME<br>RELEAS<br>RELEAS<br>RP W.IN<br>OTHER:<br>OTH<br>RP W.IN | VENT CATEGORY  BIENT TEMP & LO  E POINT(RP) AT ( E FROM BLDG H) (2.5 X HB) ABOV (5 X HB) SIDEWA STACK-VENT (LO) (ER TEMP & FLOV (2.5 X HB) ABOV (5 X HB) SIDEWA | GROUND-LEV JAC ONLY E GROUND A YS TO NEAR W T,V) W CONDITION E GROUND AI LYS TO NEAR | EXHAUSTIT WIN  EL STACI STACI STACI STACI STACI STACI STACI STACI STACI STACI STACI STACI STACI STACI | RED INFORMATION  25 F OF AMBIENT & V LT  K ID & CODE ONLY K ID, CODE & STACK K ID, CODE & STACK K ID, CODE & STACK  TACK INFORMATION | HEIGHT<br>HEIGHT |                  |
|                          | 6                                    |  | STACK VENT (OT  |  |   | TACK INFORMATION  VENTILATING AND AIR  | R CONDI          | TIONING          |
| OFC USE                  | HB = HEIGI                           | DESC   | AREST BUILDING  | DIAMETER   | GAS EXP   | HAUST ************************************   | #OFC             | USE ONLY         |
| CODE                     | 9 0 0 0                              |  | GROUND(FEET)  | 3.5  | TEMP (F)  | : ; (2)8:0.00  |                  | DMETER           |
|                          |                                      |  |   |  | _   | GAS VELOCITY   |                  | NORTH<br>DMETERI |
| ACTION<br>CODE           | STACK<br>ID<br>9 <sub>1</sub> 0, 0 0 |  | CHEIGHT ABOVE GROUNDIFEET)  | DIAMETER (FEET)  3.5   | GAS TEMP (F)  | GAS FLOW RATE  |                  | EAST<br>DMETERI  |
|                          |                                      |  |   |  |   | GAS VELOCITY (FPM)  27 5 4   |                  | HTROM<br>IRSTSMC |
| ACTION                   | STACK ID 8: 0 0 2                    |  | HEIGHT ABOVE<br>E GROUND(FEET)  | DIAMETER<br>(FEET)   | GAS<br>TEMP (F)   | GAS FLOW RATE  | L .              | EAST<br>DMETER   |
|                          |                                      |  |   |  |   | GAS VELOCITY   |                  | NORTH<br>DMETERI |
| ACTION<br>CODE           | STACK<br>ID<br>8000                  |  | HEIGHT ABOVE GROUND FEET  | DIAMETER (   | GAS<br>TEMP (F)   | GAS VELOCITY   | OXILO            | E NORTH          |
|                          |                                      |  |   |  |   | GAS VELOCITY   |                  | NORTH<br>OMETER  |

Steve Roe NAME\_

DATE 4/18/90 B - 2

ARE STK. 890323

|                           |                          | •                       |   |  |                       |   |              | <b>Y</b>  |
|---------------------------|--------------------------|-------------------------|---|--|-----------------------|---|--------------|---|
| emission<br>year<br>19 89 | AIR                      | TOXICS                  | EMISSION D  | ATA SYST<br>STACK D                      |                       | & UPDATE REPOR  | lT.          | STK   |
| FOR                       |                          | e use c                 | DNLY  | COUNTY ID:                               | FACEL                 | TY ID: 11111  |              | ·   |
|                           | DO NOT<br>DESC<br>CODE   | STACK/                  | VENT CATEGORY   |  |                       | TRUCTIONS<br>JIRED INFORMATION<br>1 25 F OF AMBIENT & V LT                                  | 750 FPM)     |   |
|                           | 1<br>2<br>3              | RELEAS<br>RP WIN<br>WIN | E POINT(RP) AT<br>E FROM BLDG H<br>(2.5 X HB) ABOV<br>(5 X HB) SIDEWA<br>STACKVENT (LO  | VAC ONLY<br>E GROUND :<br>LYS TO NEAF    | AND STAC<br>REST BLDG | CK ID & CODE ONLY<br>CK ID, CODE, & STACK<br>CK ID, CODE & STACK H<br>CK ID, CODE & STACK H | HEIGHT       |   |
|                           | 5<br>6                   | OTH<br>RP W.IN<br>W.IN  | IER TEMP & FLO<br>(2.5 X HB) ABOV<br>(5 X HB) SIDEWA<br>STACKVENT (OT   | W CONDITION<br>E GROUND A<br>LYS TO NEAR | ND ALLS               | STACK INFORMATION<br>STACK INFORMATION  |              |   |
| WHERE H                   | HB = HEIG                | HT OF NE                | AREST BUILDING  | AND                                      | HVAC = HEATING        | , VENTILATING AND AII   |              |   |
| ACTION CODE               | STACK ID STACK ID 8 0,00 | 7 3                     | CHEIGHT ABOVE CHEIGHT ABOVE CHEIGHT ABOVE CHEIGHT ABOVE CHEIGHT ABOVE CHEIGHT ABOVE CHEIGHT ABOVE CHEIGHT ABOVE CHEIGHT ABOVE CHEIGHT ABOVE | (FEET)                                   | GAS<br>TEMP (F)       | GAS VELOCITY  GAS VELOCITY  GAS VELOCITY  GAS FLOW RATE  (CFM)                              | UTM OKILO    | NORTH EAST METER  NORTH EAST METER  EAST METER  NORTH |
| ACTION<br>CODE            | STACK<br>ID              | 9 3                     | C HEIGHT ABOVE E GROUND (FEET)  | DIAMETER<br>(FEET)                       | GAS<br>TEMP (F)       | GAS FLOW RATE   | UTM<br>(X:LC | EAST DMETER!  NORTH DMETER!                           |
| ACTION                    | STACK                    | DESC                    | C HEIGHT ABOVE  | DIAMETER<br>(FEET)                       | GAS<br>TEMP (F)       | GAS FLOW RATE   |              | EAST<br>OMETERI                                       |

NAME Steve Roe

DATE 4/18/90

ARE ST4.850323

UTM NORTH

GAS VELOCITY

| EMISSION YEAR TOXICS EMISSION DATA SYSTEM REVIEW & DEVICE DESCRIPTION AND DEVICE-STACK | UPDATE REPORT<br>RELATIONS | FORM<br>DEV                              |
|--|----------------------------|--|
| FACILITY ED  |                            |  |
| OFC USE  | **** OFFICE USE ONLY       | YAL ***                                  |
| ACTION DEVICE DEVICE NAME NBR OF DEV.  | DEVD 1 GRC                 |  |
| 70001 CHROME PLTG TNK 1  |                            |  |
| STACK ID PERMIT ID (IF AVAILABLE)  | DEVD2                      |  |
| 90001 142251   |                            |  |
| ACTION DEVICE DEVICE NAME NBR OF DEV.  | DEVD1 GRO                  | DUP                                      |
| 70001 CHROME PLTG TNK 1  |                            |  |
| STACK ID PERMIT ID (IF AVAILABLE)  | DEVD2                      |  |
| 90001 142253   |                            |  |
| ACTION DEVICE DEVICE NAME NBR OF DEV.  | DEVD1 GRC                  | ICE<br>OUP                               |
| 7 0 0 0 3 C H R O M E C O N V R S N - 1  |                            |  |
| STACK ID PERMIT ID HE AVAILABLE  | DEVD2                      |  |
| $\begin{bmatrix} 9 & 0 & 0 & 0 & 2 \end{bmatrix}$                                      |                            |  |
| ACTION DEVICE DEVICE NAME NBR OF DEV   |                            | VICE<br>DUP                              |
|  |                            |  |
| TOOO4 CHROME STACK ID PERMIT ID (IF AVAILABLE)   | DEVD2                      |  |
| STACK 10 TEMATINE  |                            |  |
| ACTION DEVICE 9 0.0.01 1.4 2 2 5 2 1   |                            | /ICE                                     |
| CCDE ID DEVICE NAME NBR OF DEV.  | DEVD1 GRO                  | OUP                                      |
| 7 0 0 0 5 C. H. R. O. M. E. I. C. O. N. V. E. R. S. N.                                 |                            |  |
| STACK ID PERMIT ID (IF AVAILABLE)  | 0EAD5                      | en en en en en en en en en en en en en e |
| 90002  | DE                         | /ICE                                     |
| ACTION DEVICE CODE ID DEVICE NAME NBR OF DEV.  |                            | OUP                                      |
| 7 0 0 2 1 DEGREASER 1  |                            |  |
| STACK ID PERMIT ID (IF AVAILABLE)  | DEVD2                      |  |
| M 6 0 6 0 8 ! ! ! !  |                            | •  |
| NAME Steve Roe DATE 4/18/90 B - 3  | AF                         | RB/CEV-240389                            |

| EMISSION AIR TOXICS EMISSION DATA SYSTEM REVIEW & UPDATE REPORT DEVICE DESCRIPTION AND DEVICE-STACK RELATIONS  | DEV            |
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| FOR OFFICE USE ONLY  FACILITY RO   |                |
| ACTION DEVICE CODE ID DEVICE NAME  7 0 009 DEGREASER  1 STATES OFFICE USE ONLY THANK EACH ITEM IS OFFICE USE ONLY THANK EACH ITEM IS OFFICE USE ONLY THANK EACH ITEM IS OFFICE USE ONLY THANK EACH ITE | NAL ***        |
| STACK ID PERMIT ID (IF AVAILABLE)  8 0 009 PH 3 0 2 9  | /ICE:<br>OUP   |
| 7 0 0 1 0 V A P O R D E G R E A S E R 1 DEVD2  |                |
| ACTION DEVICE DEVICE NAME NBR OF DEV.  7 0 0 1 2 C 0 0 L I N G T 0 W E R S 8   | VICE<br>OUP    |
| STACK 10 FERMIT 10   | VICE<br>OUP    |
| ACTION DEVICE NAME NBR OF DEV. DEVD1 GF  | VICE           |
| ACTION DEVICE NRR OF DEV DEVD1 G   | EVICE<br>ROUP  |
| TO DEVICE NAME  TO 017  COOL ING TOWERS  STACK ID PERMIT ID (IF AVAILABLE)  DEVD2  |                |
|  | ARB/DEV-140389 |

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| YEAR 19 89    | DEVICE DESCRIPTION AND DEVICE-STACK | RELATIONS            | DEV           |
|---------------|-------------------------------------|----------------------|---------------|
|               | COUNTY ID:                          |                      |               |
| ofe use       |                                     | **** OFFICE USE ONLY | VAL ***       |
| CODE ID       | DEVICE NAME NBR OF DEV.             | DEVD1 GRC            |               |
| 7 0 0 1 8     | ENGINEERING LAB 1                   |                      |               |
| 70018         | STACK ID PERMIT ID IIF AVAILABLES   | DEVD2                | 4:            |
|               |                                     |                      |               |
| ACTION DEVICE | NBR OF DEV.                         |                      | HCE.          |
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|               |                                     | DEVD2                |               |
|               | STACK ID PERMIT ID (IF AVAILABLE)   | DEVD2                |               |
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| ACTION DEVICE | DEVICE NAME NBR OF DEV.             |                      | OUP -         |
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|               | STACK ID PERMIT ID IIF AVAILABLE    | DEVD2                |               |
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| ACTION DEVICE | DEVICE NAME NBR OF DEV              | DEVD1 GR             | /ICE<br>OUP   |
| COD€ ID       | DEVICE IVANIE                       |                      |               |
|               | 11                                  | DEVO2                |               |
|               | STACK ID PERMIT ID (IF AVAILABLE)   | DEVD2                |               |
| DEVICE        |                                     |                      | VICE          |
| ACTION DEVICE | DEVICE NAME NBR OF DEV.             | DEVD1 GR             | OUP           |
|               |                                     |                      |               |
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|               | 45 AVAILABLE                        | DEVD2                |               |
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|               |                                     |                      | 88/CEV-140389 |
| NAME Steve Ro | e DATE 4/18/90 B - 3                | A                    | VP.C5A-140192 |

| EMISSION YEAR 19 89 AIR TOXICS EMISSION DATA SYSTEM REVIEW AND UPDATE REPORT PROCESS AND EMITTENTS DATA  | FORM<br>PRC<br>SIDE A |
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|  | LASHN                 |
| STOP FILL OUT ANY SUPPLEMENTAL PROCESS FORM(S) FOR THIS PROCESS FIRST. THEN FILL OF THIS PAGE, SUBMITTING ONE FOR EACH EMITTING PROCESS IN YOUR FACILITY.  SIC  PROCESS DATA  DEVICE 1.D. 7, 0. 0.0,3  3, 7, 6, 9  CONFIDENTIAL 17/N) 15 Y CHECK SMALL BOXES | N                     |
| PROCESS EQUIPMENT DESCRIPTION  C H R O M E , C O N, V, E, R, S, N  NOTE USE 1 SPACE FOR EACH DECIMAL POINT   |                       |
| PROCESS RATE (UNITS/YR) PROCESS RATE (UNITS/HR) PROCESS UNITS DAY WEEK Y   | KS/<br>EAR<br>C       |
| RELATIVE MONTHLY ACTIVITY (%)  | 8.0                   |
| ACTION EMITTENT DATA EMISSIONS CODE  1 8 5 4 0 2 9 9 7 0 . 0 0 5 7  ALLOWABLE EMIS LBS/YR(OPTIONAL)  PRIMARY SECONDARY CONTROL EFF(%) PART C C C C C C C C C C C C C C C C C C C   | 1.40                  |
| ACTION EMITTENT ID EST ACTUAL EMISSIONS ANNUAL AVERAGE EMISSIONS (LBS/YR)  |                       |
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| emission year 19_89 AIR TOXICS EMISSION DATA SYSTEM REVIEW AND UPDATE REPORT PROCESS AND EMITTENTS DATA   | FORM PRO   |
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| STOP FILL OUT ANY SUPPLEMENTAL PROCESS FORM(S) FOR THIS PROCESS FIRST. THEN FILL OF THIS PAGE, SUBMITTING ONE FOR EACH EMITTING PROCESS IN YOUR FACILITY.  SECTION 1 PROCESS DATA  DEVICE I.D. 7, 0 0 0 1  3,7.6:9  CONFIDENTIAL (Y/N) IF Y CHECK SMALL BOXES AS APPROPRIATE  | N N        |
| PROCESS EQUIPMENT DESCRIPTION  C  C H R O M E , P, L, T/A N O D Z  NOTE USE 1 SPACE FOR EACH DECIMAL POINT  |            |
| TOTAL YEARLY PROCESS RATE (UNITS/YR)  C  3 2 . 5 . E   - 6   1  |            |
| RELATIVE MONTHLY ACTIVITY (%) C  JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV  8.0   8.4 | DEC<br>8.0 |
| OFFICE USE ONLY SECTION 2  EMITTENT DATA  EMISSIONS  ACTION CODE  1,8,5,4,0,2,9,9  0,1  6,1,6,E,8,  EMISSIONS ANNUAL AVERAGE EMISSIONS (LBS/YR)  C 0.2  |            |
| ALLOWABLE EMIS LBS/YR(OPTIONAL) PRIMARY SECONDARY CONTROL EFF(%) PART C C C C C C C C C C C C C C C C C C C   | S          |
| ACTION CODE  EMITTENT ID  EST ACTUAL EMISSIONS ANNUAL AVERAGE EMISSIONS (LBS/YR)  C  C  ALLOWABLE EMIS LBS/YR(OPTIONAL) PRIMARY SECONDARY CONTROL EGPT CODES OVERALL FULL/ PRIMARY SECONDARY CONTROL EFF(%) PART (LBS/HOUR)   | s          |
|   | 8 PRC 4903 |

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| EMISSION<br>YEAR AIR TO<br>1989                  | XICS EMISSION DATA SYSTEM REVIEW AND PROCESS AND EMITTENTS DATA                        | UPDATE REPORT   | FORM<br>PRO<br>SIDE A |
|--|--|---|-----------------------|
| PROCESS DESCRIPTION CODE                         | PROD1 (OPTIONAL)  PROD2 (OPTIONAL)  PROD3 (OPTIONAL)                                   | 1. 7 1  | ASHV                  |
| STOP FILL OUTHIS PA<br>SECTION 1<br>PROCESS DATA | T ANY SUPPLEMENTAL PROCESS FORM(S) FOR THIS PROCESS IN SECTION TO SIC CO               | CESS FIRST. THEN FILL O<br>YOUR FACILITY.<br>NFIDENTIAL (Y/N)<br>IF Y CHECK SMALL BOXES | UT N                  |
| CHROME   | CONVERSOR POINT  | OCESS INFO  |                       |
| TOTAL YEARLY PROCESS RATE (UNIT)                 |  |   | KS/<br>EAR<br>C       |
| JAN FEB  8.0 8.4                                 | RELATIVE MONTHLY ACTIVITY MAR APR MAY JUN JUL AUG SEI  8.4 8.4 8.4 8.4 8.4 8.4         |   | 8.0                   |
| OFFICE USE ONLY                                  | SECTION 2 EMITTENT DATA  | EMISSIONS   |                       |
| ACTION<br>CODE                                   | EMITTENT ID  EST ACTUAL EMISSIONS FACTORILBS/UNITI  C  1 8 5 4 0 2 9 9  7  0 . 0 0 5 7 | ANNUAL AVERAGE EMISSIONS (LBS/YR)  1.40   |                       |
| ALLOWABLE EMIS LBS/YRIOPTIONAL)                  | *CONTROL EQPT CODES* OVERALL FULL/ PRIMARY SECONDARY CONTROL EFF(%) PART C C C C C     | HOURLY MAX EMISSION (LBS/HOUR)  0.0057  | 15                    |
| ACTION<br>CODE                                   | EMITTENT ID  EST ACTUAL EMISSIONS  METH FACTOR(LBS/UNIT)  C                            | ANNUAL AVERAGE EMISSIONS (LBS/YR)   |                       |
| ALLOWABLE EMIS LBS/YR(OPTIONAL)                  | *CONTROL EQPT CODES* OVERALL FULL/ PRIMARY SECONDARY CONTROL EFF(%) PART C C C C       | HOURLY MAX EMISSION   |                       |
| NAME_ Steve Ro                                   | e DATE 4/18/90 B - 4   | Ä   | AB PRC 4303:          |

| emission year AIR TOXICS EMISSION DATA SYSTEM REVIEW AND UPDATE REPORT PROCESS AND EMITTENTS DATA  | PRO<br>SIDE A  |  |  |  |  |
|--|--|--|--|--|--|
| PROCESS DESCRIPTION  COUNTY  SCC NO  C  PROCESS DESCRIPTION  C  PROD1 (OPTIONAL)  PROD2 (OPTIONAL)  ACTION  COUNTY  FACILITY I   | AIR<br>BASHN   |  |  |  |  |
| STOP FILL OUT ANY SUPPLEMENTAL PROCESS FORM(S) FOR THIS PROCESS FIRST. THEN FILL THIS PAGE, SUBMITTING ONE FOR EACH EMITTING PROCESS IN YOUR FACILITY.  SECTION 1  PROCESS DATA  DEVICE 7 0 0 0 9  I.D. 7 0 0 0 9  IF Y CHECK SMALL BOXES AS APPROPRIATE | OUT  |  |  |  |  |
| PROCESS EQUIPMENT DESCRIPTION  DEGREASER,  |  |  |  |  |  |
| PROCESS RATE (UNITS/YR) PROCESS RATE (UNITS/HR) PROCESS UNITS DAY WEEK   | TOTAL YEARLY MAXIMUM HOURLY  PROCESS RATE (UNITS/YR) PROCESS RATE (UNITS/HR) PROCESS UNITS  C  C  C  C  C  C  C  C  C  C |  |  |  |  |
| RELATIVE MONTHLY ACTIVITY (%)   C   SEP   OCT   NOV  | B.0  |  |  |  |  |
| EMITTENT DATA  EMISSION  ACTION CODE  7 1 5 5 6  7 C 1 1 1 C 171   |  |  |  |  |  |
| *CONTROL EQPT CODES* OVERALL FULL/ HOURLY MAX EMISSIS LBS/YRIOPTIONAL)  PRIMARY SECONDARY CONTROL EFFI%) PART (LBS/HOUR)  C C C C C C C C C C C C C C C C C C C  |  |  |  |  |  |
| ACTION CODE  EMITTENT ID  EST ACTUAL EMISSIONS ANNUAL AVERAGE EMISSIONS (LBS/YR)  C  C  C  ALLOWABLE EMIS *CONTROL EQPT CODES* OVERALL PRIMARY SECONDARY CONTROL EFF(%) PART (LBS/HOUR)  | ons  |  |  |  |  |
| Steve Roe  DATE 4/18/90  B - 4   |  |  |  |  |  |

| EMISSION YEAR 1989 AIR TOXICS EMISSION DATA SYSTEM REVIEW AND UPDATE REPORT PROCESS AND EMITTENTS DATA   | FORM<br>PRO<br>SIDE A |  |  |  |
|--|-----------------------|--|--|--|
| PROCESS DESCRIPTION  PROCESS DESCRIPTION  C. T. T. T. T. T. T. T. T. T. T. T. T. T.  | AIR<br>BASEN          |  |  |  |
| STOP FILL OUT ANY SUPPLEMENTAL PROCESS FORM(S) FOR THIS PROCESS FIRST. THEN FILL THIS PAGE, SUBMITTING ONE FOR EACH EMITTING PROCESS IN YOUR FACILITY. | OUT                   |  |  |  |
| SECTION 1 PROCESS DATA  DEVICE 1.D. 7, 0, 0, 1, 0  SIC  CONFIDENTIAL (Y/N)  IF Y CHECK SMALL BOXES AS APPROPRIATE                                      | N                     |  |  |  |
| PROCESS EQUIPMENT DESCRIPTION  VAPORDE GREASER  TITTE CALUSE SPACE FOR EACH DECIMAL POINT  |                       |  |  |  |
| TOTAL YEARLY PROCESS RATE (UNITS/YR)  C    1   |                       |  |  |  |
| RELATIVE MONTHLY ACTIVITY (%) C  | DEC                   |  |  |  |
| 8.0 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4  | 8.0                   |  |  |  |
| OFFICE USE ONLY SECTION 2  EMITTENT DATA  EMISSION   | S                     |  |  |  |
| ACTION EMITTENT ID EST ACTUAL EMISSIONS ANNUAL AVERAGE METH FACTOR(LBS/UNIT) EMISSIONS (LBS/YR)  |                       |  |  |  |
| 7 1 5 5 6 7 0 . 9 7 131  | 6                     |  |  |  |
| ALLOWABLE EMIS *CONTROL EQPT CODES* OVERALL FULL/ HOURLY MAX EMISSIC LBS/YRIOPTIONAL) PRIMARY SECONDARY CONTROL EFFI% PART (LBS/HOUR)                  | )NS                   |  |  |  |
|  | 3                     |  |  |  |
| ACTION EMITTENT ID EST ACTUAL EMISSIONS ANNUAL AVERAGE METH FACTOR(LBS/UNIT) EMISSIONS (LBS/YR)  |                       |  |  |  |
|  |                       |  |  |  |
| ALLOWABLE EMIS LBS/YR(OPTIONAL)  PRIMARY SECONDARY CONTROL EFF(%) PART C C C C C C C C C C C C C C C C C C C   | ons                   |  |  |  |
| NAME Steve Roe DATE 4/18/90  | ARE PRC 83032         |  |  |  |

8 - 4

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| EMISSION YEAR 19 89 AIR TOXICS EMISSION DATA SYSTEM REVIEW AND UPDATE REPORT PROCESS AND EMITTENTS DATA |   |                      | RT FORM PRO                        |                  |  |  |  |                        |
|---|---|----------------------|------------------------------------|------------------|--|--|--|------------------------|
| PROCESS DE  |   | OD1 KOPTIONA         |                                    | LIII 2 (OPTICE)  | ONAL)  | <u>                                     </u> | COUNTER THE PROPERTY OF THE PR | ATY AIR BASHN  ITY ID: |
|   | THIS PAGE.  | SUBMITTING<br>DEVICE | NTAL PROCES<br>ONE FOR EA<br>0 1 2 | CH EMI           | RM(S) FOR<br>ITTING PRO<br>SIC<br>3, 7, 6, 9 | CON  | ESS FIRST. THEN OUR FACILITY.  IFIDENTIAL (Y/N) IF Y CHECK SMALL BI AS APPROPRIATE   |                        |
| C 0 0   | LING  | DESCRIPTION TOWER    | C                                  |                  |  | OTHER PRO                                    | c  |                        |
| PROCESS R   | TOTAL YEARLY PROCESS RATE (UNITS/YR)  REAL PROCESS RATE (UNITS/HR) PROCESS UNITS  C  C  C  C  C  C  C  C  C  C  C  C  C |                      |                                    |                  |  |  |  |                        |
| JAN FE  | 8.4 8   | APR 8.4              | 1 - 1                              |                  |  | UG SEP                                       | 0CT NO<br>B.4 8.4  | 8.4 8.0                |
| OFFICE USE  | ONLY SI   | ECTION 2             | EMITTEN                            | T DA             | TA   |  | EMISS  | SIONS                  |
| ACTION<br>CODE  |   | 7,8,250              | 1 1                                |                  | UAL EMISS<br>TORILBS/UI                      |  | ANNUAL AVERACEMISSIONS (LBS)   |                        |
| ALLOWABLE<br>LBS/YRIOPTIC   | CIANO   | CONTROL EQ           | PT CODES* ECONDARY C               |                  | C C  | FULL/<br>PART<br>C                           | HOURLY MAX EM  | 0.018                  |
| ACTION<br>CODE  |   | ITTENT ID            | EST<br>METH                        |                  | TUAL EMISS                                   |  | ANNUAL AVERACEMISSIONS (LBS.   |                        |
| ALLOWABLE<br>LBS/YR(OPTIO   |   | CONTROL EQ           | PT CODES*<br>SECONDARY<br>C        | OVERA            | C C  | PART C                                       | HOURLY MAX EN  |                        |
| NAMES   | teve Roe  |                      | DATE                               | <b>4/</b><br>B - | <u>/18/90</u><br>- 4                         |  |  | ARE PRC 89032          |

| EMISSION YEAR 19_ AIR TOXICS EMISSION DATA SYSTEM REVIEW AND UPDATE PROCESS AND EMITTENTS DATA   | TE REPORT FORM PRO                 |
|--|------------------------------------|
| PROCESS DESCRIPTION  SCC ND  C  FOR OFFICE USE ONLY  SCC ND  FOR OFFICE USE ONLY  FOR OFFICE USE ONLY  SCC ND  FOR OFFICE USE ONLY  SCC ND  FOR OFFICE USE ONLY  F | COUNTY AIR ID: BASHN  FACE ITY ID: |
| STOP FILL OUT ANY SUPPLEMENTAL PROCESS FORM(S) FOR THIS PROCESS FIR THIS PAGE. SUBMITTING ONE FOR EACH EMITTING PROCESS IN YOUR FACTOR OF THE PROCESS OF THE | AL (Y/N) CK SMALL BOXES N          |
| JAN FEB IMAN STATE OF A DA DA DA   | C T NOV DEC                        |
| 8.0 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4  | 8.4 8.4 8.0<br>EMISSIONS           |
| ACTION EMITTENT ID EST ACTUAL EMISSIONS ANNUA  | AL AVERAGE IONS (LBS/YR)  14810    |
| ALLOWABLE EMIS LBS/YR(OPTIONAL)  C  C  C  C  C  C  C  C  C  C  C  C  C   | Y MAX EMISSIONS<br>OURI<br>2.63    |
|  | AL AVERAGE<br>IONS (LBS/YR)        |
| LBS/YR(OPTIONAL) PRIMARY SECONDARY CONTROL EFF(%) PART (LBS/H  | LY MAX EMISSIONS                   |
| NAME Steve Roe DATE $\frac{4/18/90}{8-4}$  | ARE PRO 8303                       |

| EMISSION YEAR 19 89 AIR TOXICS EMISSION DATA SYSTEM REVIEW AND UPDATE REPORT PROCESS AND EMITTENTS DATA  | PRO<br>SIDE A   |
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|  | AIR<br>BASHN    |
| STOP FILL OUT ANY SUPPLEMENTAL PROCESS FORM(S) FOR THIS PROCESS FIRST. THEN FILL OF THIS PAGE, SUBMITTING ONE FOR EACH EMITTING PROCESS IN YOUR FACILITY.  SIC  PROCESS DATA  DEVICE 7, 0 0 1,6  3,7,69  CONFIDENTIAL (Y/N)  IF Y CHECK SMALL BOXES AS APPROPRIATE | N N             |
| PROCESS EQUIPMENT DESCRIPTION  PARTS CLEANER  C  1 1 1 - T CA  I I I I I I I I I I I I I I I I I I I   |                 |
| PROCESS RATE (UNITS/YR) PROCESS RATE (UNITS/HR) PROCESS UNITS DAY WEEK Y   | KS/<br>EAR<br>C |
| RELATIVE MONTHLY ACTIVITY (%) C  JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV  8.0 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4  | DEC 8.0         |
| ACTION CODE  ACTION CODE  7.1-5.56  CONTROL EQPT CODES* LBS/YR(OPTIONAL)  PRIMARY  SECTION 2  EMITTENT DATA  EMISSIONS ANNUAL AVERAGE EMISSIONS (LBS/YR)  C 7 1 0 . 9 . 7  17771  ALLOWABLE EMIS LBS/YR(OPTIONAL)  O 0 0 C C C C C 3.18                            |                 |
| ACTION CODE METH FACTOR(LBS/UNIT)  ALLOWABLE EMIS LBS/YR(OPTIONAL)  C C C C C C C C C C C C C C C C C C  | NS .            |
| NAME_ Steve Roe DATE   | AB.PRC 89032    |

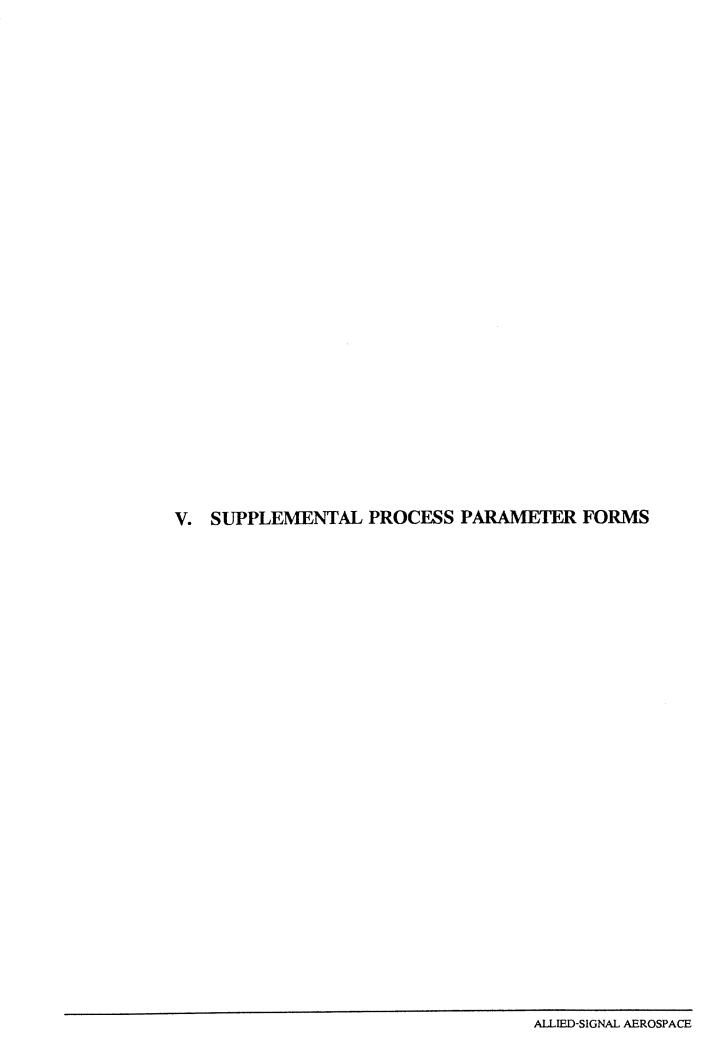
| EMISSION YEAR 19 89                               | OXICS EMISSION DATA SYSTEM REVIEW AND UPDATE REPORT PROCESS AND EMITTENTS DATA   | FORM PRO  |
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| PROCESS DESCRIPT                                  | FOR OFFICE USE ONLY  COUNTY AII  C   | R<br>SSHN |
| SECTION 1 PROCESS DATA PROCESS EQUIPM C 0 0 L I N | THE PROCESS FORM SO FOR THIS PROCESS FIRST. THEN FILL OUT AGE. SUBMITTING ONE FOR EACH EMITTING PROCESS IN YOUR FACILITY.  SIC  CONFIDENTIAL (Y/N)  IF Y CHECK SMALL BOXES  MENT DESCRIPTION  G TO WERS  SPACE FOR EACH DECIMAL POINT                | T         |
| TOTAL YEARLY PROCESS RATE UNIT                    | MAXIMUM HOURLY PROCESS RATE UNITS/HR)  C C C C C C C C C C C C C C C C C C   |           |
| JAN FEB  8.0 8.4                                  |  | 8.0       |
| ACTION CODE  ALLOWABLE EMIS LES/YR/OPTIONAL)      | EMITTENT DATA  EMISSIONS  EMITTENT ID  EST ACTUAL EMISSIONS ANNUAL AVERAGE EMISSIONS (LBS/YR)  7 7 8 2 5 0 5 09 0 0 0 0 0 5 42  *CONTROL EQPT CODES* OVERALL FULL/PART CONTROL EFF(%) PART CONTROL EFF(%) PART (LBS/HOUR)  C C C C C C C C C C 0.012 |           |
| ACTION CODE ALLOWABLE EMIS LBS/YR(OPTIONAL)       | EMITTENT ID  EST ACTUAL EMISSIONS  METH FACTOR(LBS/UNIT)  C  C  C  *CONTROL EQPT CODES*  PRIMARY SECONDARY  C  C  C  C  C  C  C  C  C  C  C  C  C  |           |
| NAME Steve Roc                                    | e DATE 4/18/90 B - 4   | RC 89032  |

| EMISSION YEAR 19 89 AIR TOXICS EMISSION DATA SYSTEM REVIEW AND UPDATE REPORT PROCESS AND EMITTENTS DATA   | FORM PRO                     |
|---|------------------------------|
| PROCESS DESCRIPTION  SCC NO  C  IIII  PROD 1 (OPTIONAL)  PROD 2 (OPTIONAL)  FACRUTY IIII  ACTION  CODE  | AIR<br>BASHN                 |
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| 1   | KS/<br>EAR<br>C<br>50<br>DEC |
| EMITTENT DATA  ACTION CODE CODE  ALLOWABLE EMIS LBS/YR(OPTIONAL)  C  O  O  O  O  O  O  O  O  O  O  O  O   |                              |
| ACTION CODE    METH   ACTUAL EMISSIONS   ANNUAL AVERAGE   EMISSIONS (LBS/YR)  | ———                          |

NAME Steve Roe

DATE 4/18/90
B - 4

ARB PRC 89032



| YEAR   | SUPPLEMENT  | DATA SYSTEM F<br>TAL PROCESS PA<br>PRODUCED. OR   | RAMETER FO  | ORM  | FORM<br>S-UP                           |
|--|---|---|---|--|--|
| FACILITY NAME A1   | lied-Signal   |   |   | FOR OFFICE USE ONL   | Y ]                                    |
| PLEASE COPY THIS FORM A<br>PLEASE READ THE INSTRUCT  |   |   | *∀  | FACID:   |  |
| USE THIS FORM TO RE<br>USED. PRODUCED. OR  | PORT SUBSTANCES<br>OTHERWISE PRESE  | IN APPENDIX A4H W<br>NT.  | HICH ARE  |  |  |
| PLEASE INDICATE IN HUND<br>OF ANY SUBSTANCES, UST<br>ACTIVITY OR PROCESS AT<br>OR PROCESS TAKING PLACE<br>WAY IN AN ACTIVITY OR P<br>DURING PROCESSING. PLEA | ED IN APPENDIK APPEN<br>YOUR FACILITY PROC<br>EIN YOUR FACILITY,<br>ROCESS, SUCH AS BYP | CBUS OF SEFER TOBUL<br>TRUE OF SEFERS OBJUSTED<br>SE TRIBESENT BE WESHTO<br>NOTOASE PO STOUCORS | AR HOHM SEDMAT<br>BRA HOHM SEDMAT<br>BRATEBUS OF SRETS<br>HW SETAIGEMRETY | E INGREDIENTS IN ANY<br>THE RESULT OF ANY ACTIV<br>ES PRESENT IN ANY OTHER | .*/                                    |
| ALSO USE THIS FORM (APPLICABLE DEGREE)   |   | ANCES IN APPENDIX   |   | PRESENT BELOW THE  |  |
| LISTED SUBSTANCE   | USED  | PRODUCED  | OTHERWISE<br>PRESENT  | (SPECIFY)  |  |
| Lead   | (Y)   | ( N)  | (N) Flow  | solder and solder  | pots                                   |
| Cadmium  | (Y)   | ( N)  | ( N ) <u>Cadm</u>   | ium plating  | · · · · · · · · · · · · · · · · · · ·  |
| Hydrochloric acid  | (Y)   | ( N)  | ( N ) HCL   | tank   |  |
| Copper   | (Y)   | ( N)  | ( N ) <u>Copp</u>   | er plating   |  |
| Mineral oils   | (N)   | ( N)  | ( Y) 0il  | Quench   |  |
| Silica   | (Y)   | ( N)  | (N) Glas  | s bead blaster   | ······································ |
| Zinc   | (Y)   | ( N)  | (N) Pain  | t spray booths   |  |
| Benzene  | (N)   | ( Y)  | (N) Pain  | t baking oven  |  |
| Formaldehyde   | (N)   | ( Y)  | (N) Pain  | t baking oven  |  |
| Toluene  | (N)   | ( Y)  | ( N ) <u>Pain</u>   | t baking oven  | ·                                      |
| Carbon black   | (Y)   | ( N)  | ( N ) <u>Pain</u>   | t spray booth  |  |
| Sodium hydroxide   | (Y)   | ( N)  | ( N) Plat   | ing  |  |
| Xylenes  | (Y)   | ( N)  | ( N ) <u>Paint</u>  | t spray booth  |  |
| Methylene chloride   | (Y)   | ( N)  | ( N) <u>Paint</u>   | t spray booth  |  |
| Manganese  | (Y)   | ( N)  | ( N) <u>Paint</u>   | t spray booth  |  |
| Glycol ethers  | (Y)   | ( N)  | ( N) <u>Paint</u>   | t spray booth  |  |

|           |       | ······································ |                |
|-----------|-------|--|----------------|
| Steve Roe | DATE: | 4-18-90                                | ARB SHUP \$308 |

NAME:

| emission<br>year<br>19_89 | AIR TOXICS EMISSION DATA SYSTEM REVIEW & U<br>SUPPLEMENTAL PROCESS PARAMETER F<br>METAL PLATING |                            |
|---------------------------|---|----------------------------|
| COMPAN                    | NY NAME_Allied-Signal Aerospace Co.   | FOR OFFICE USE ONLY        |
| DEVICE                    | ID: 7.0 00;1  | CO: AB: SCC: -   -   -   - |
|                           | L INFORMATION:  |                            |
| TYPE OF I                 | PLATING: X CHROME TYPE OF CHROME PLATING: X HARD PLATING: NICKEL ANODIZING  CADMIUM DECORATIVE  |                            |
|                           | FORMATION:  IT (TYPICAL OPERATING COND.): $1500$ AMPS  (MAX. OPER. CO.)                         | OND.): 3 6 0 0 AMPS        |
| ОТНЕ                      | R INGREDIENTS: % CYANIDE % HYDROCHLORIC ACID  | % HYDROFLUORIC ACI         |
| AGITA                     | TION:AIR JETS CFMIMPELLERX_OTHER (SPECIFY) circulating pumps                                    |                            |
|                           | OTHER GEECHT) CTTCUTTETTING PUMPS   |                            |

REPORT EMISSIONS IN SECTION 2 OF CORE FORM PRO

NAME: Steve Roe DATE: 4/18/90 ARBIS-MPI89087

| emission<br>year<br>1989 | AIR TOXICS EMISSION DATA SYSTEM REVIEW & U<br>SUPPLEMENTAL PROCESS PARAMETER F<br>METAL PLATING             |                       |
|--------------------------|---|-----------------------|
| COMPAN                   | NY NAME_ Allied-Signal Aerospace Co.  | FOR OFFICE USE ONLY   |
| DEVICE                   | ID: 7. 0 0 0 2  | FACID: AB:            |
|                          | DPY THIS FORM AS MANY TIMES AS NECESSARY FOR YOUR FACILITY AD THE INSTRUCTIONS BEFORE COMPLETING THIS FORM. | scc: [-   -           |
| GENERA                   | L INFORMATION:  |                       |
| TYPE OF                  | PLATING: X CHROME TYPE OF CHROME PLATING: HARD PLATI  | ING                   |
|                          | NICKEL X ANODIZING  | _                     |
|                          | CADMIUM DECORATIVE  | Ē                     |
|                          | FORMATION:  NT (TYPICAL OPERATING COND.): 8 AMPS (MAX. OPER. C  | COND.): 8 AMPS        |
| OTHE                     | R INGREDIENTS: % CYANIDE % HYDROCHLORIC ACID  | D % HYDROFLUORIC ACID |
| AGITA                    | ITION: X AIR JETS 400 CFM.  |                       |
|                          | IMPELLER OTHER LOSS CARD  |                       |
|                          | OTHER (SPECIFY)   |                       |
|                          |   |                       |
|                          |   |                       |
|                          |   |                       |

REPORT EMISSIONS IN SECTION 2 OF CORE FORM PRO

NAME: Steve Roe DATE: 4/18/90 ARBIS-MP/89087

| EMISSION AIR TO<br>YEAR<br>19_89 |                                 | SYSTEM REVIEW & L<br>OCESS PARAMETER F<br>LING TOWER |  |
|----------------------------------|---------------------------------|--|--|
| COMPANY NAME                     | Allied-Signal Aerospace         | e Co.  | FOR OFFICE USE ONLY                        |
| DEVICE ID: 7001                  | 2 AS MANY TIMES AS NECESSARY FO | CP YOUR FACILITY                                     | CO: AB: :: : : : : : : : : : : : : : : : : |
|                                  | CTIONS BEFORE COMPLETING THIS P |  | SCC:                                       |
| DESIGN DRIFT FRACTI              | ON IMER. SPEC.                  | GPM DRIFT GPM TH                                     | ROUGHPUT                                   |
| TOWER DESIGN:                    | OPEN CIRCUIT                    | FORCED DRAFT   |  |
|                                  | _ CLOSED CIRCUIT                | COUNTERFLOW  |  |
|                                  | _ EVAPORATIVE CONDENSER         | X CROSSFLOW  |  |
| 2. PROCESS INFORMAT              | TION                            |  |  |
|                                  |                                 |  |  |
| RATED COOLING CAPAC              |                                 |  |  |
| AVERAGE: WATER FL                | OW (GPM): 6 0 0                 | MAXIMUM: WATER FLOW (C                               | (GPM): 1 5 0 0                             |
| TOWER APPLICATION:               | X PROCESS COOLING               | BUILDING HVAC  | REFRIGERATION                              |
| 3. EMITTENT INFORMA              | TION:                           |  |  |
| WATER TREATMENT<br>CHEMICAL      | CONCENTRATION AVERAGE           | IN WATER (PPMW) MAXIMUM                              |  |
| CHROMATE                         |                                 |  |  |
| CHLORINE                         | 0.2                             | 0.2  |  |
| SODIL M HYDROXIDE                |                                 |  |  |
| ZINC                             |                                 |  |  |
| BROMINE                          | 1 .                             |  |  |
|                                  |                                 |  |  |
|                                  |                                 |  |  |
|                                  |                                 | 1  |  |
|                                  |                                 |  | <b>!</b>                                   |
| REPORT EMISSIONS IN SECTI        | ON 2 OF CORE FORM PRO           |  |  |
| NAME: Steve Re                   | oe                              | DATE   | 4/18/90 ARB S-C 89087                      |

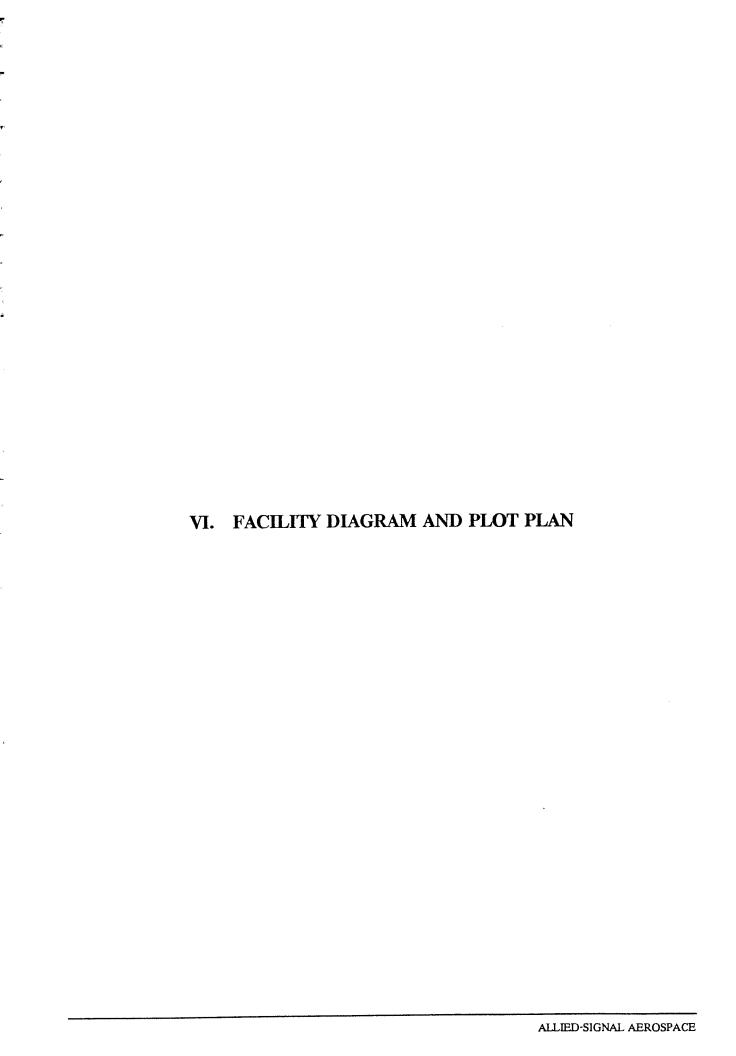
| emission AIR TOX<br>YEAR<br>19_89       |   | YSTEM REVIEW & U<br>DCESS PARAMETER FO<br>ING TOWER | S-CT                |
|---|---|---|---------------------|
| COMPANY NAME All                        | ied-Signal Aerospace (  | Co.   | FOR OFFICE USE ONLY |
| DEVICE ID: 70017                        | 7   |   | FACID:     AB:      |
|   | MANY TIMES AS NECESSARY FOR<br>IONS BEFORE COMPLETING THIS FO |   | scc:  -   -     -   |
| 1. DEVICE INFORMATION                   | (4 Towers)  | ļ   |                     |
| DESIGN DRIFT FRACTION                   | GPM DRIFT'GPM THR   | OUGHPUT   |                     |
| TOWER DESIGN:                           | OPEN CIRCUIT  | FORCED DRAFT  |                     |
|   | CLOSED CIRCUIT  | COUNTERFLOW   |                     |
|   | EVAPORATIVE CONDENSER   | X CROSSFLOW   |                     |
|   |   |   |                     |
|   |   |   |                     |
| 2. PROCESS INFORMATIO                   | )N  |   |                     |
| RATED COOLING CAPACIT                   | Y (TONS): 300   |   |                     |
| AVERAGE: WATER FLOW                     | W (GPM): 6 0 0  | MAXIMUM: WATER FLOW (G.                             | PM): 1 5 0 0        |
| TOWER APPLICATION                       | X PROCESS COOLING   | BUILDING HVAC                                       | REFRIGERATION       |
| 3. EMITTENT INFORMATI                   | ON:   |   |                     |
| WATER TREATMENT<br>CHEMICAL             | CONCENTRATION AVERAGE   | IN WATER (PPMW) MAXIMUM                             |                     |
| CHROMATE                                | 1   |   |                     |
| CHLORINE                                | 0.2   | 0.2   |                     |
| SODIUM HYDROXIDE                        | ;   |   |                     |
| ZINC                                    |   |   |                     |
|   |   |   |                     |
| BROMINE                                 |   |   |                     |
|   |   |   |                     |
|   |   |   |                     |
| *************************************** |   |   |                     |
|   | ,   | !   |                     |

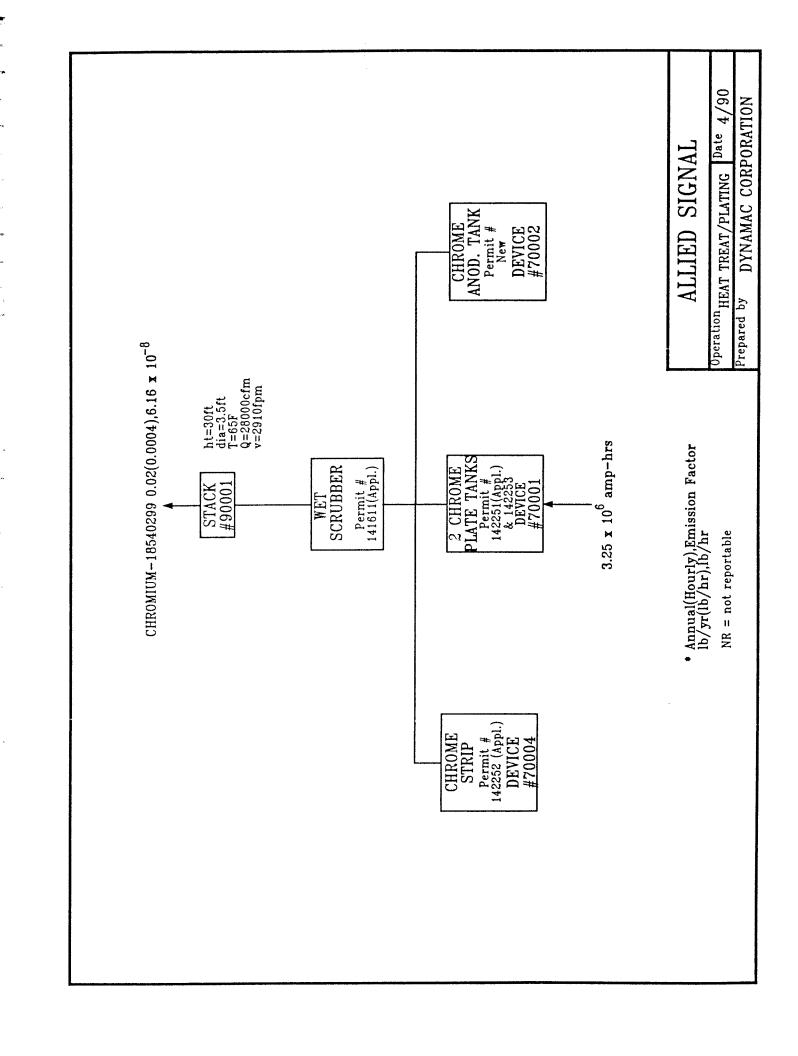
REPORT EMISSIONS IN SECTION 2 OF CORE FORM PRO

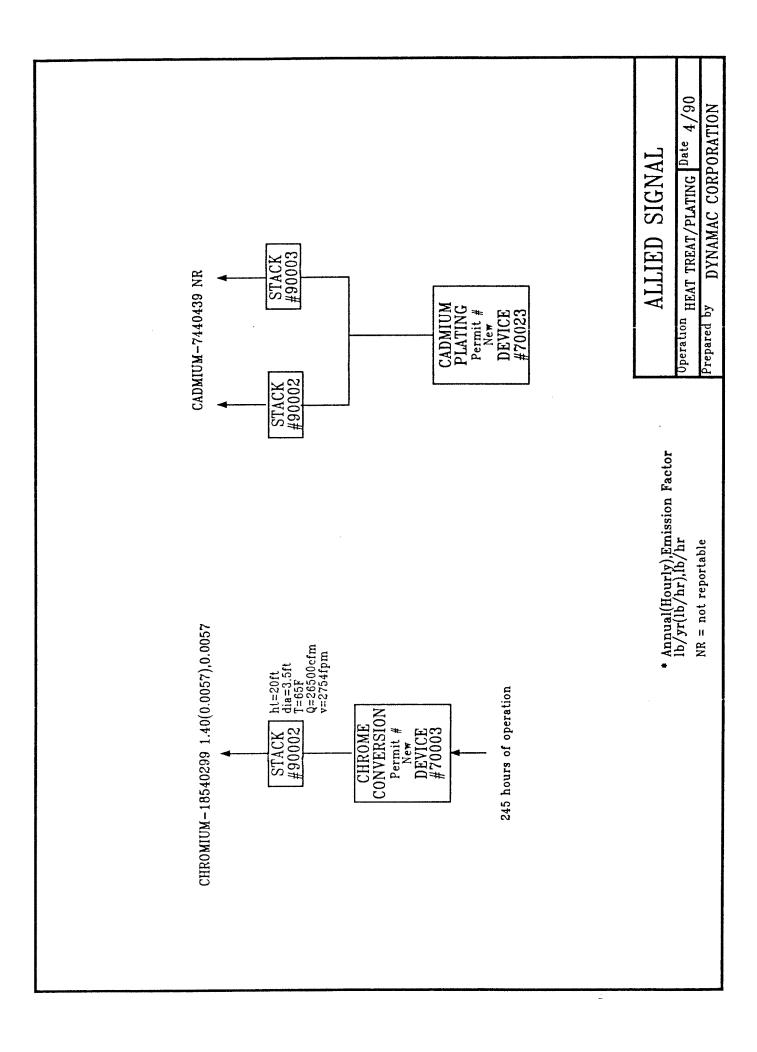
NAME: Steve Roe

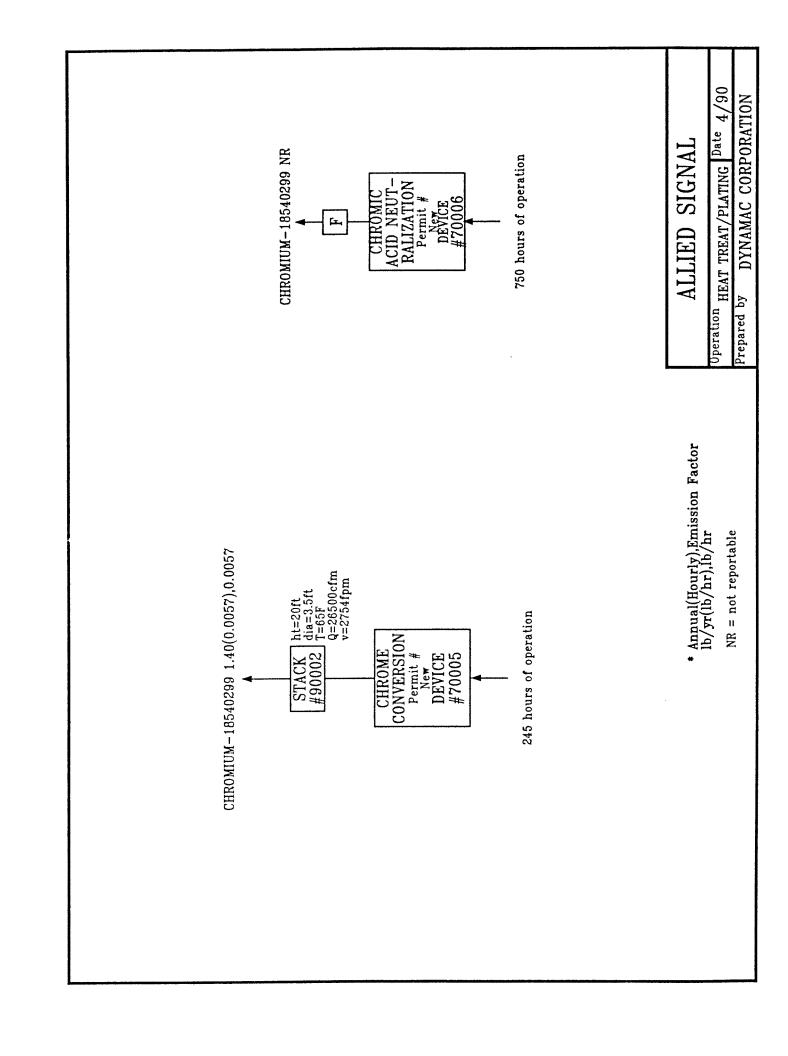
DATE:

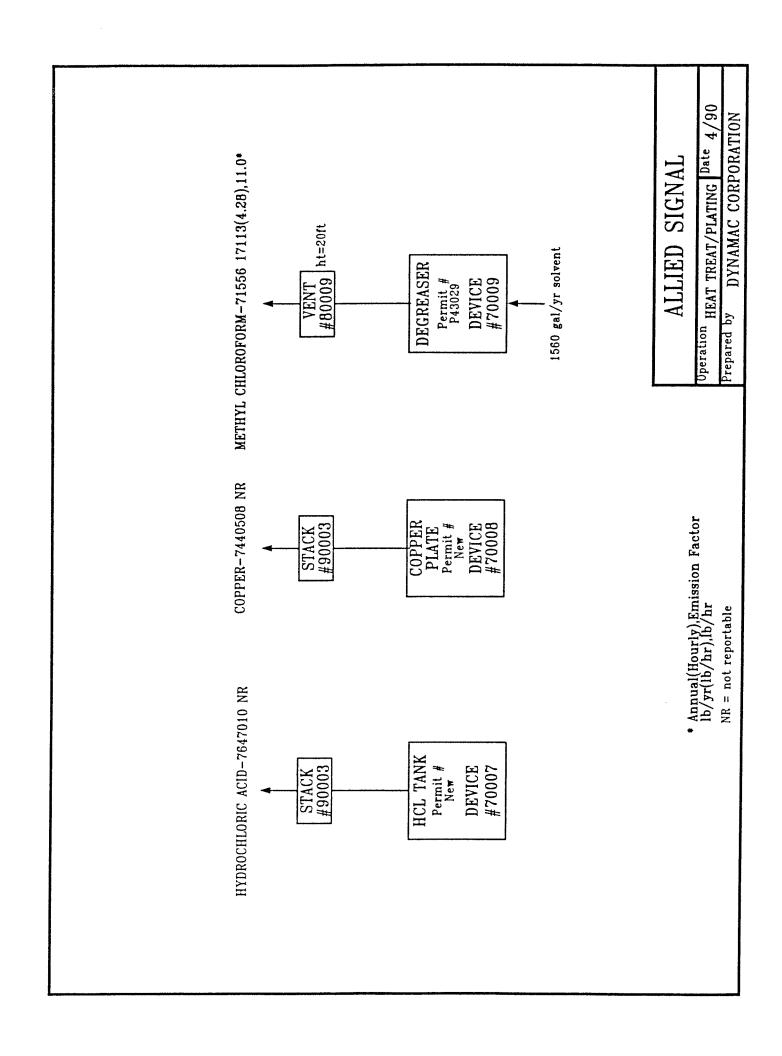
4/18/90 ARB S-CT 89087

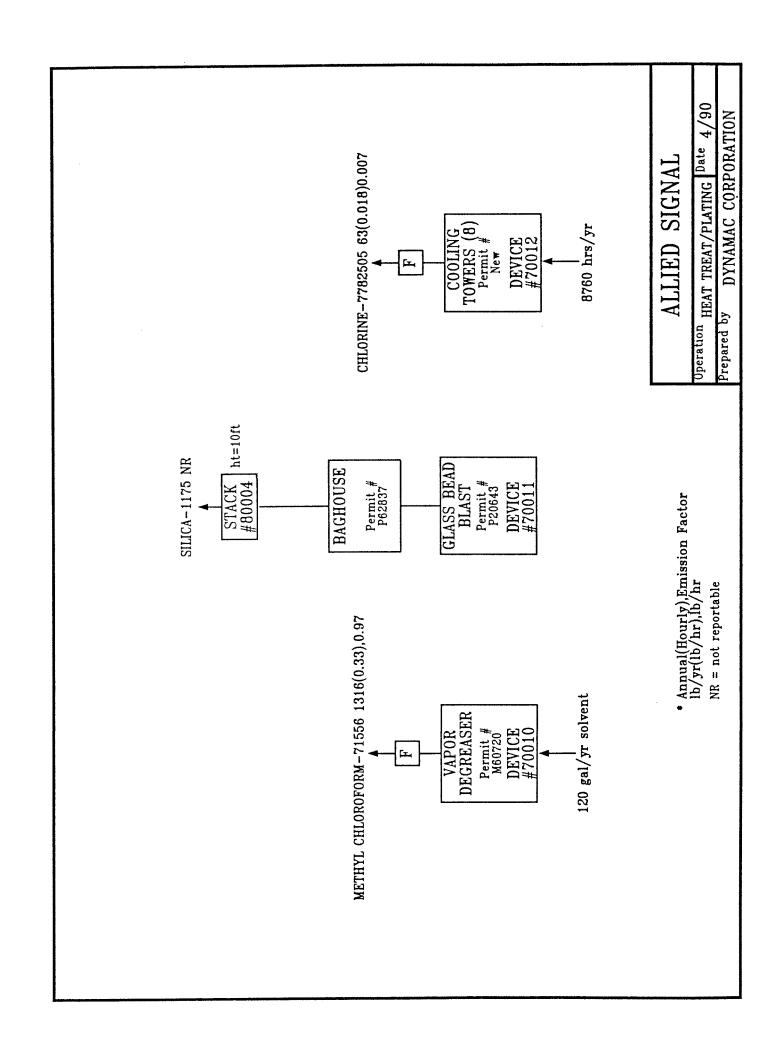


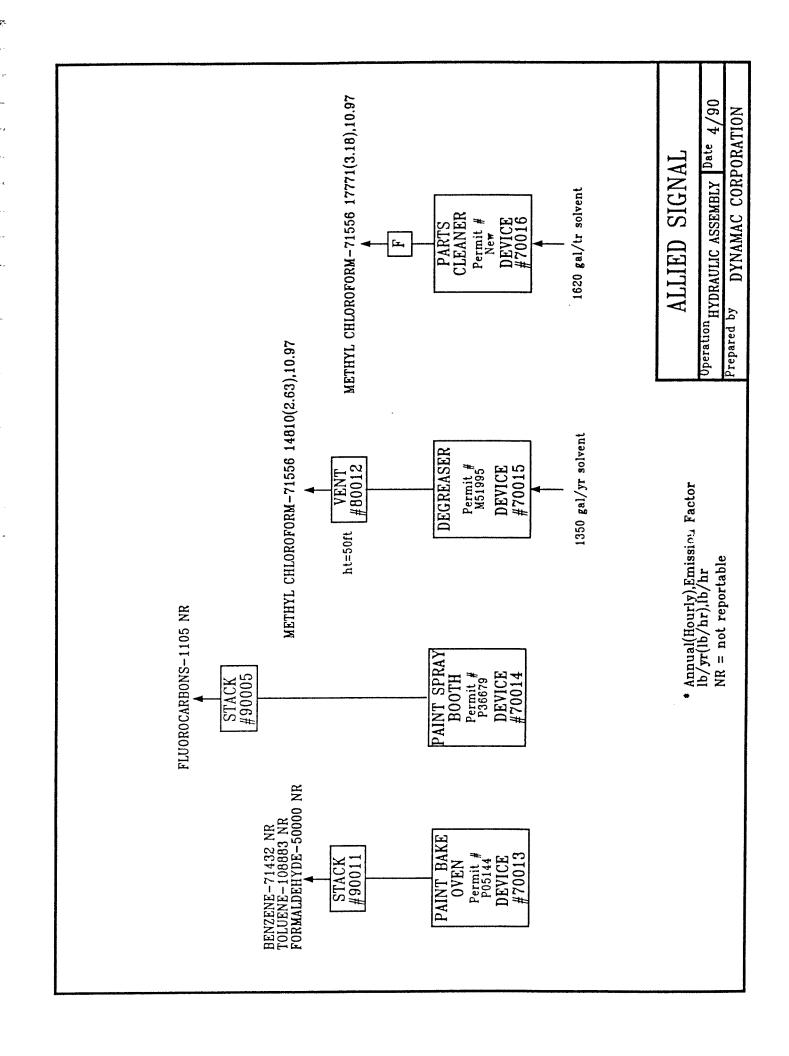


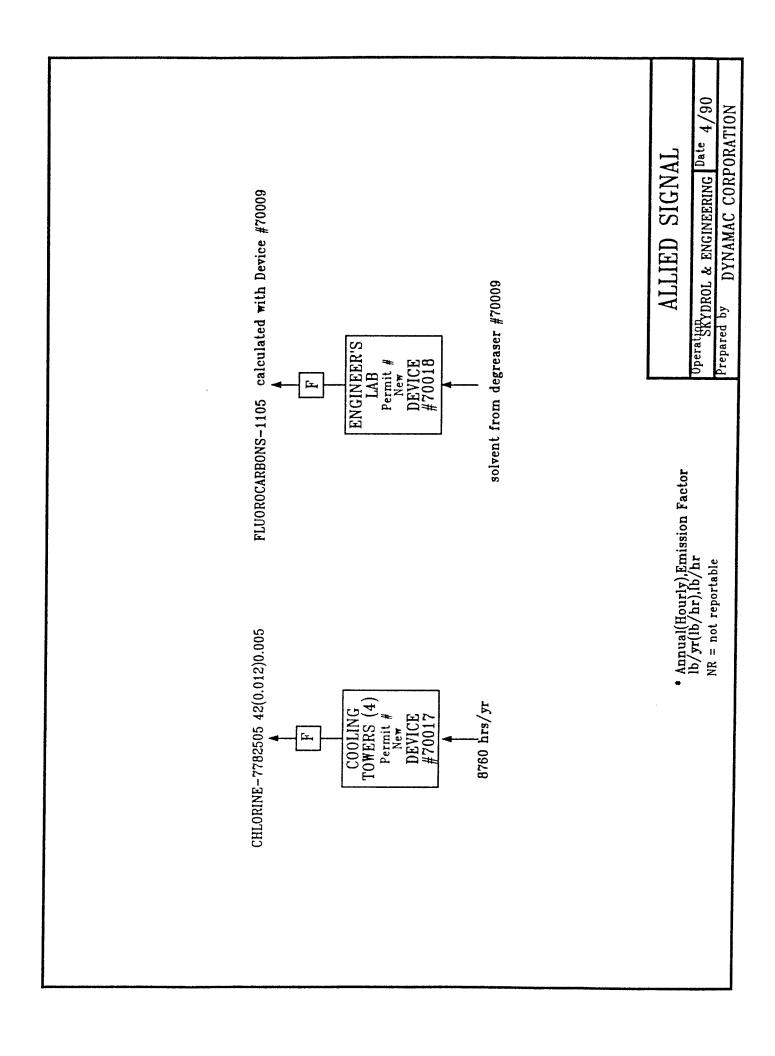


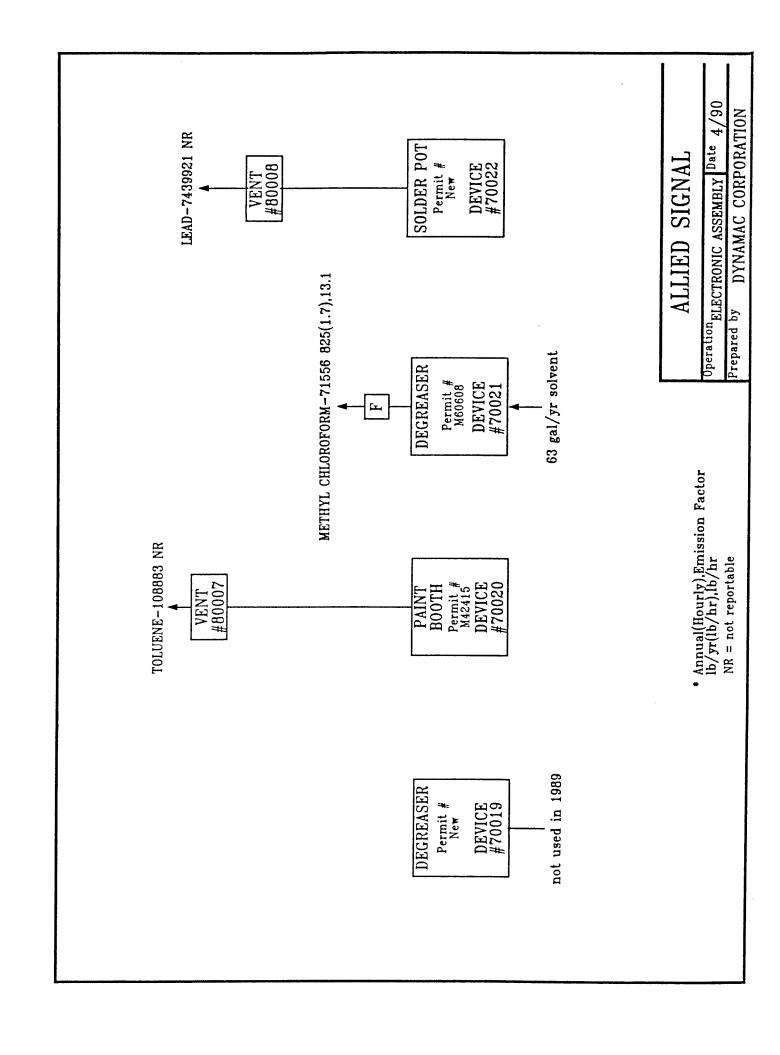


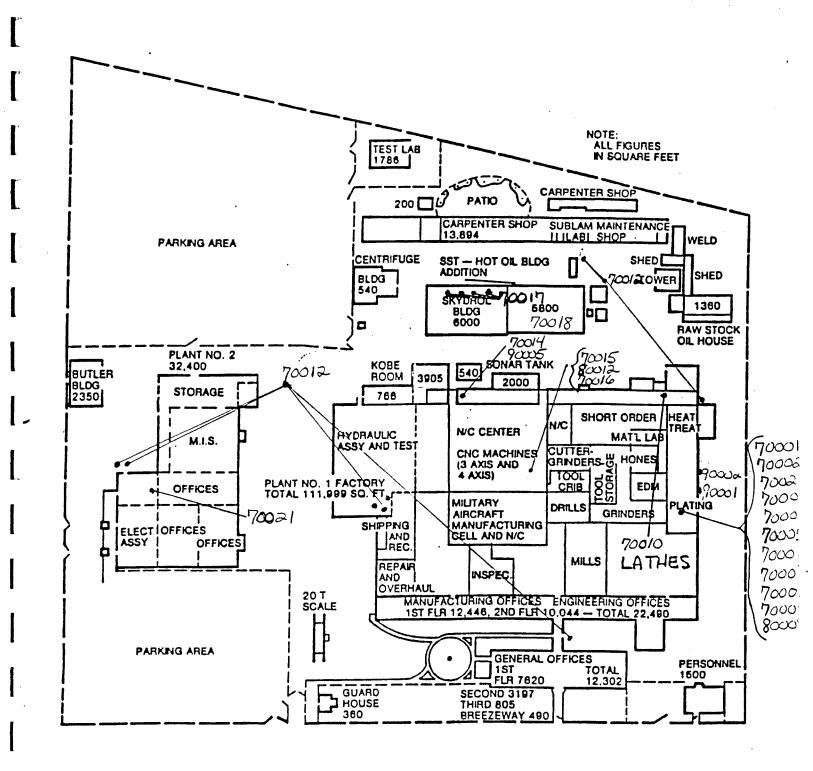












APPENDIX A **EMISSION CALCULATIONS** 

ALLIED-SIGNAL AEROSPACE

## SOLVENT USAGE WORKSHEET

| [7]  | H<br>H            | lb/gal   | 10.97                   | 10.97             | 10.97                   | 10.97                   | 6.312              |         | 1.578         |  |  |  |  |  |  |  |  |
|--|-------------------|----------|-------------------------|-------------------|-------------------------|-------------------------|--------------------|---------|---------------|--|--|--|--|--|--|--|--|
|  | MHE               |          | 4.2783                  | 0.3291            | 2.6328                  | 3.1813                  | 0.82056            | 10.4215 | 0.20514       |  |  |  |  |  |  |  |  |
| [5]  | AAE               | lb/yr    | 17113.2                 | 1316.4            | 14809.5                 | 17771.4                 | 397.656            | 51010.5 | 99.414        |  |  |  |  |  |  |  |  |
| [4]  | Hourly Use        | gal/hr   | 68.0                    | 0.03              | 0.24                    | 0.29                    | 0.13               | 0.95    | 0.13          |  |  |  |  |  |  |  |  |
| [3]  | <b>Annual Use</b> | gal/yr   | 1560                    | 120               | 1350                    | 1620                    | 63                 | 4650    | 63            |  |  |  |  |  |  |  |  |
| [2]  | Density           | lb/gal   | 10.97                   | 10.97             | 10.97                   | 10.97                   | 10.52              |         | 10.52         |  |  |  |  |  |  |  |  |
| Ξ  | Weight            | Fraction | -                       | ļ                 | ļ                       | -                       | 9.0                |         | 0.15          |  |  |  |  |  |  |  |  |
|  | Emittent          |          | methyl chloroform       | methyl chloroform | methyl chloroform       | methyl chloroform       | methyl chloroform  |         | fluorocarbons |  |  |  |  |  |  |  |  |
| Springer in the later was a second of the later with the later was a second of the later was a s | Product           |          | 70009 methyl chloroform |                   | 70015 methyl chloroform | 70016 methyl chloroform | 70021 Kester Freon | TOTAL   | Kester Freon  |  |  |  |  |  |  |  |  |
|  | Device            |          | 20009                   | 70010             | 70015                   | 70016                   | 70021              |         | <br>70021     |  |  |  |  |  |  |  |  |

CALCULATIONS:

Average Annual Emissions (AAE)= [1]x[2]x[3]= [5] Maximum Hourly Emissions (MHE)= [1]x[2]x[4]= [6] Emission Factor (EF)= [1]x[2]= [7]

## COATING EMISSIONS WORKSHEET

| [2] | Ш          | lb/gal   | 1.875              | 0.75        | 1.75    | 0.75       | 0.75        | 7.51    | 0.75         | 0.84   | 3.725   | 1.051          | 2.12      | 0.7956  | N.       |  |  |  |  |  |
|-----|------------|----------|--------------------|-------------|---------|------------|-------------|---------|--------------|--------|---------|----------------|-----------|---------|----------|--|--|--|--|--|
| [9] | MHE        | lb/hr    | 0.09375            | 0.075       | 0.0875  | 0.075      | 0.075       | 0.3755  | 0.0375       | 0.084  | 0.18625 | 0.05255        | 0.0212    | 0.07956 | 1.24281  |  |  |  |  |  |
| [2] | AAE        | lb/yr    | 0.46875            | 0.75        | 1.47    | 0.975      | 1.5         | 1.6522  | 0.0825       | 2.1    | 3.01725 | 0.32581        | 0.0636    | 0.7956  | 13.20071 |  |  |  |  |  |
| [4] | Hourly Use | gal/hr   | 0.05               | 0.1         | 0.05    | 0.1        | 0.1         | 0.05    | 0.05         | 0.1    | 0.05    | 0.05           | 0.01      | 0.1     |          |  |  |  |  |  |
| [3] | Annual Use | gal/yr   | 0.25               | -           | 0.84    | 1.3        | . 2         | 0.22    | 0.11         | 2.5    | 0.81    | 0.31           | 0.03      | -       | 10.37    |  |  |  |  |  |
| [2] | Density    | lb/gal   | 7.5                | 7.5         | 7       | 7.5        | 7.5         | 7.51    | 7.5          | 5.6    | 14.9    | 10.51          | 8.48      | 7.8     | TOTAL    |  |  |  |  |  |
| Ξ   | Weight     | Fraction | 0.25               | 0.1         | 0.25    | 0.1        | 0.1         | -       | 0.1          | 0.15   | 0.25    | 0.1            | 0.25      | 0.102   |          |  |  |  |  |  |
|     | Emittent   |          | 108883             | 108883      | 108883  | 108883     | 108883      | 108883  | 108883       | 108883 | 108883  | 108883         | 108883    | 108883  |          |  |  |  |  |  |
|     | Product    |          | 70014 MIL-L-81352A | MIL-C-83286 | PT-1002 | MIL-P-2377 | MIL-L-19538 | TOLUENE | LCM-37-1035A | 49596  | 83430A  | KOROPON PRIMER | 443-3-320 | PT-113  |          |  |  |  |  |  |
|     | Device     |          | 70014              |             |         |            |             |         |              |        |         |                |           |         |          |  |  |  |  |  |

CALCULATIONS:

Average Annual Emissions (AAE)=  $[1] \times [2] \times [3] = [5]$ Maximum Hourly Emissions (MHE)=  $[1] \times [2] \times [4] = [6]$  Device Name: CHROME PLATING TANK (2 TANKS)

Device ID: 70001

Emission Calculations: Chrome VI

Emission Factor = EF = 0.028 mg/amp-hr from attached source test

Max hourly emissions = 186.7 mg/hr from attached source test = .00041 lb/hr

Annual emissions

$$\frac{.028}{1000 \cdot 454} = 6.16 \times 10^{-8} \text{ lb/amp}$$

 $6.16 \times 10^{-8} \text{ lb/amp x } 3.25 \times 10^{6} \text{ amp/yr x = } 0.2 \text{ lb/yr}$ 

Average amp hours  $\frac{3.25 \times 10^6}{.7 \cdot 50}$  = 844 amp/hr

Device Name: CHROMIC ACID ANODIZING TANK

Device ID: 70002

Emission Calculations:

Emissions Quantified with Device 70001.

Device Name: CHROME CONVERSION

Device ID: 70003

Emission Calculations: Chrome VI

 $EF = 0.0019 lb/hr/ft^2$ 

MHE =  $0.0019 \text{ lb/hr/ft}^2 \times 3 \text{ ft}^2 = 0.0057 \text{ lb/hr}$ 

AAE = 0.0057 lb/hr x .7 hr/day x 350 day/yr = 1.40 lb/yr

Adjusted EF  $\frac{1.53 \text{ lb/yr}}{270 \text{ hr/yr}} = 0.00566 \text{ lb/hr}$ 

Device Name: CHROME STRIP

Device ID: 70004

Emission Calculations:

Included in source test for Device 70001.

Device Name: CHROME CONVERSION (DOUGLAS)

Device ID: 70005

Emission Calculations: Chrome VI

 $EPA EF = 0.0019 lb/hr/ft^2$ 

MHE =  $0.0019 \text{ lb/hr/ft}^2 \times 3 \text{ ft}^2 = 0.0057 \text{ lb/hr}$ 

AAE = 0.0057 lb/hr x .7 hr/day x 350 day/yr = 1.40 lb/yr

Adjusted EF =  $\frac{1.40 \text{ lb/yr}}{245 \text{ hr/yr}}$  = 0.0057 lb/hr

Device Name: CHROMIC ACID NEUTRALIZATION

Device ID: 70006

## Emission Calculations:

Engineering judgment dictates that the use of an emission factor for anodizing is not appropriate for quantifying emissions from this device (no electricity is used). Further, no mechanism exists for air releases of hexavalent chrome from this device. Hence, the emissions are assumed to be zero.

Device Name: HCL TANK

Device ID: 70007

Emission Calculations: Hydrochloric Acid

MHE =  $(P_{HCL})(Tank Area)(Evaporation rate of H<sub>2</sub>O)/760 mm Hg$ 

MHE =  $(0.00076 \text{ mm Hg})(3 \text{ ft}^2)(0.037 \text{ lb/ft}^2\text{-hr})/760 \text{ mm Hg} = 1.11 \times 10^{-7} \text{ lb/hr}$ 

AAE = MHE x DOP x HOP =  $1.11 \times 10^{-7}$  lb/hr x 8760 lb/yr = 0.00093 lb/yr

Emission level is below the reportable limit; hydrochloric acid will be shown as "otherwise present" on Form S-UP.

Device Name: COPPER PLATING TANK

Device ID: 70008

Emission Calculations: Copper

 $EF = 2.86 \times 10^{-6}$ 

MHE =  $2.86 \times 10^{-6}$  lb/amp-hr x 50 amps<sub>(max)</sub> x  $\frac{63.546}{51.996}$  = 0.0017 lb/hr

AAE =  $2.86 \times 10^{-6}$  lb/amp-hr x 20 amps<sub>(average)</sub> x  $\frac{63.546}{51.996}$  x 16 hr/day x 250 day/hr

= 0.28 lb/yr

Emission level is below the reportable limit; copper will be shown as "otherwise present" on Form S-UP.

Device Name: DEGREASER

Device ID: 70009

Emission Calculations:

Emission calculation on solvent usage worksheet.

Methyl Chloroform

AAE = 17113.2 lb/yr

MHE = 4.3 lb/yr

Device Name: ULTRASONIC VAPOR DEGREASER

Device ID: 70010

Emission Calculations:

Emission calculation on solvent usage worksheet.

Methyl Chloroform

AAE = 1316.4 lb/yr

MHE = 0.33 lb/yr

Device Name: GLASS BEAD BLASTER

Device ID: 70011

Emission Calculations: Silica

25 lbs material day/16 hrs/day = 1.56 lb/hr

MHE = hourly rate x 0.01 = 1.56 lbs/hr x 0.01 = 0.0156 lb/hr

 $AAE = 4800 \text{ hr/yr} \times 1.56 \text{ lb/hr} \times 0.01 = 74.88 \text{ lb/yr}$ 

The annual emission level for silica is below the reporting requirements. Silica will be reported as "otherwise present" on Form S-UP.

Device Name: COOLING TOWERS (6)

Device ID: 70012

Emission Calculations: Chlorine

Six working cooling towers - CG concentration = 0.2 ppmw.

MHE = (DF)(WR)(CO)(OF)(6 towers)(8.33 lb/gal)(60 min/hr)(1/ $10^6$  ppmw) = (.02)(1500)(0.2)(1)(6)(8.33)(60)/ $10^6$  = 0.018 lb/hr

 $AAE = [(.02)(600)(0.2)(1)(6)(8.33)(60)/10^{6}](8760 \text{ hrs/yr}) = 63 \text{ lbs/yr}$ 

Device Name: PAINT BAKING OVEN

Device ID: 70013

Emission Calculations:

EPA EF = 
$$\frac{5.2 \text{ lbs}}{10^6 \text{ ft}^3}$$
 Rating = 100,000 BTU/hr x 1 ft<sup>2</sup>/1050 BTU = 95.2 ft<sup>3</sup>/hr

AAE = 
$$95.2 \text{ ft}^3/\text{hr} \times 20 \text{ hr/mo} \times \frac{5.8 \text{ lb}}{10^6 \text{ft}^3} \times 12 \text{ mo/yr} \times .04 = 0.0053 \text{ lb/yr Benzene}$$

95.2 ft<sup>3</sup>/hr x 20 hr/mo x 
$$\frac{5.8 \text{ lb}}{10^6 \text{ft}^3}$$
 x 12 mo/yr x .02 = .00265 lb/yr Toluene

95.2 ft<sup>3</sup>/hr x 20 hr/mo x 
$$\frac{5.8 \text{ lb}}{10^6 \text{ft}^3}$$
 x 12 mo/yr x .08 = 0.0106 lb/yr Formaldehyde

The annual emission levels for Benzene, Toluene, and Formaldehyde are below the reporting requirements. These substances will be reported as "otherwise present" on Form S-UP.

Device Name: PAINT SPRAY BOOTH

Device ID: 70014

### Emission Calculations:

Emission calculations on coating emission worksheet.

Toluene

AAE = 13.2 lb/yr

Emission levels is below the reportable limit; toluene will be shown as "otherwise present" on Form S-UP.

Device Name: DEGREASER

Device ID: 70015

Emission Calculations:

Emission calculation on solvent usage worksheet.

Methyl Chloroform

AAE = 14809.5 lb/yr

MHE = 2.63 lb/yr

Device Name: PARTS CLEANER

Device ID: 70016

Emission Calculations:

Emission calculation on solvent usage worksheet.

Methyl Chloroform

AAE = 17771.4 lb/yr

MHE = 3.2 lb/yr

Device Name: COOLING TOWERS (4)

Device ID: 70017

Emission Calculations:

4 working towers:

MHE =  $(.02)(1500)(0.2)(1)(4)(8.33)(60)/10^6 = 0.012 \text{ lbs/hr}$ 

AAE =  $[(.02)(600)(0.2)(1)(4)(8.33)(60)/10^6]$  8760 hrs/yr = 42 lbs/yr

Device Name: ENGINEERING LAB

Device ID: 70018

## **Emission Calculations:**

The Engineering Lab uses small quantities of 111-TCA solvent in their daily operations. This solvent is drawn off of Device #70009. The Emissions of TCA for Device #70018 will be calculated with Device #70009.

Device Name: DEGREASER Device ID: 70019 Emission Calculations: This piece of equipment was not used in 1989. Device Name: SPRAY BOOTH

Device ID: 70020

### Emission Calculations:

There are two products used at this Spray Booth that contain Toluene. The total usage of the paints combined is only 2.5 gallons per year. Emission of Toluene at this Device and Device 70014 will be below the reporting requirements.

108883: AAE = Product usage x density x %S = [1.25 gal x 7.59 lbs/gal x .60] + [1.25 gal x 7.95 lbs/gal x .30] = 5.7 lbs + 3 lbs = 8.7 lb/yr Device Name: DEGREASER

Device ID: 70021

### Emission Calculations:

Emission calculation on solvent usage worksheet.

Methyl Chloroform

AAE = 397.7 lb/yr

MHE = 0.82 lb/hr

Fluorocarbons

AAE = 99.4 lb/yr

MHE = 0.21 lb/hr

Device Name: FLOW SOLDER AND SOLDER POTS

Device ID: 70022

Emission Calculations: Lead

EF = 0.2 lb/ton used 30% lead in solder

 $AAE = .30 \times 0.2 \text{ lb/ton } \times 12 \text{ mo/yr } \times .75 \text{ lb/mo } \times 1/2000 = 0.00027 \text{ lb/yr}$ 

MHE = 0.00027 lb/yr

The annual emission of lead is below the reporting requirements. Lead will be reported as "otherwise present" on Form S-UP.

Device Name: CADMIUM PLATING (2)

Device ID: 70023

Emission Calculations:

EPA EF = .00005 grams/hr/amp

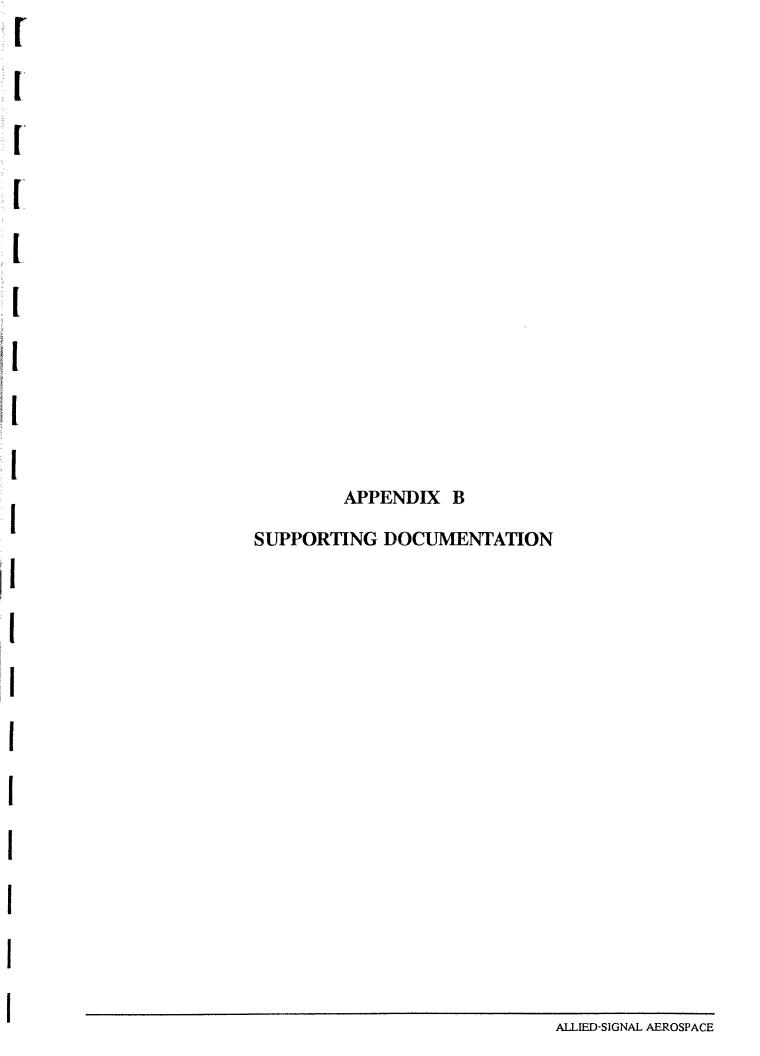
.00005 grams/hr/amp x .002204 lb =  $1.102 \times 10^{-7}$  lb/amp-hr 1 gram

MHE =  $1.102 \times 10^{-7}$  lb/amp-hr x 600 amps x 2 tanks = 0.00013 lb/hr

 $AAE = 0.00013 \text{ lb/hr} \times 200 \text{ hr/mo} \times 12 \text{ mos/yr} = 0.31 \text{ lb/yr}$ 

EF = 0.31 lb/yr = 0.00013 lb/hr2400 hr/yr

The annual emission limit of cadmium is below the reporting requirements. Cadmium will be reported as "otherwise present" on Form S-UP.



CHROME EMISSIONS FROM A SCRUBBER EXHAUST SERVING
TWO HARD CHROME PLATING TANKS,
ONE CHROMIC ACID ANODIZING TANK
AND ONE CHROME STRIP TANK
ALLIED SIGNAL AEROSPACE CO.
Electrodynamics Division
11600 Sherman Way
North Hollywood, CA 91605

5/8/90 PES Job No. 4078

Pacific Environmental Services, Inc. 150 E. Foothill Blvd. Arcadia, CA. 91006 (818) 357-1993

- PACIFIC ENVIRONMENTAL SERVICES, INC. -



# CHROME EMISSIONS FROM A SCRUBBER EXHAUST SERVING TWO HARD CHROME PLATING TANKS, ONE CHROMIC ACID ANODIZING TANK AND ONE CHROME STRIP TANK

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| 2.      | PROCESS DESCRIPTION | 2.   |
| 3.      | TESTING METHODOLOGY | 6    |
| 4.      | RESULTS             | 9    |

APPENDIXES

### SECTION 1

### INTRODUCTION

Pacific Environmental Services, Inc. (PES) was contracted by Allied Signal Aerospace Company, to determine the stack outlet loading of a scrubber serving 2 hard chrome plating tanks, one chromic acid anodizing tank and one chrome strip tank, at 11,600 Sherman Way, North Hollywood, CA 91605.

The objective of the study was to determine if chromium emissions generated by plating and anodizing operations at the facility were sufficiently controlled to meet hexavalent chrome emission standards of South Coast Air Quality Management District (SCAQMD) Rule 1169.

PES conducted two 4 hour and one 6-hour source test on April 18, 19 & 20, 1990. Mr. Danilo Gutierrez, Manager, Health, Safety and Environmental Affairs, coordinated the plant operations during the study. The field tests were conducted by Mark J. Simon, Scott G. Parks, Glenn Hart, John Hagele, Eric Schumann and Dean High of PES. M. Dean High of PES provided guidance and supervision for planning and reporting purposes. Mr. Michael D. Wickson of SCAQMD observed portions of the tests as well as the entire sample retrieval process on the first test day. Tests were conducted at four points simultaneously - strip tank exhaust, chromic acid anodize tank exhaust, scrubber inlet and scrubber outlet. No major problems were encountered during the tests and the objective was achieved.

Section 2 of the report describes the facilities and the tested scrubber. Section 3 describes the testing procedures and analytical methods. Section 4 of the report provides a summary and discussion of the test results. Appendices contain the field data sheets, calculations, process data, lab reports calibration records for the dry gas meter.

# EQUIPMENT DESCRIPTION

Two emission collection systems served various tanks at Allied-Signal. All chromic acid emissions (from two hard chrome plating tanks, one anodizing tank, and one strip tank) were collected by hoods and eventually combined in one 42" diameter scrubber intake duct which led out of the building. This duct led to a Viron International Model VVS-8496 vertical packed bed water scrubber followed by a 72" x 72" x 12" Munters chevron blade demister and a 46" diameter vertical outlet stack. Anodizing tanks A-11, A-12, and C-11 did not contain chromic acid solutions so they were not expected to contribute to the hexavalent chromium emissions. None of these three tanks were active during the tests. Figure 1 shows the overall layout of the emission control systems. shows the sampling ports for the exhausts of the strip tank and anodizing tank. Figure 3 shows the approximate location of the sampling ports in the scrubber intake and demister exhaust

Both hard chrome plating tanks, the chromic acid anodizing tank and the chrome strip tank were operated during the tests. All tanks were used in the manufacture of small to medium sized aircraft parts. Because of the high cost and variable size of production parts, dummy loads were used for the tests. The chrome tanks and corresponding dummy loads were as follows:

| TANK #                       | TANK SIZE (LxHxW)     | LOAD DURING<br>TESTS (LxWxT)  |
|------------------------------|-----------------------|---|
| Hard Chrome Plating Tank C-7 | 144×36×48"            | one 26 x 24 x 0.5" steel plate  |
| Hard Chrome Plating Tank C-9 | 96x3 <b>6x48</b>      | one 18 x 32.5 x 0.5 steel plate and one 24 x 36 x 0.0625" corrugated steel plate, and one 17.5 x 32.5 x 0.19 steel plate. |
| Anodizing Tank A-13          | 60x48x48              | one 28 x 10 x 1.5 "aluminum<br>block  |
| Chrome Strip Tank C-11       | 48 x 3 <b>6 x 4 8</b> | one 25.5 x 12.0 x 0.5" steel plate  |

The chromic acid concentration of the hard chrome tanks was about 30 ounces/gallon and the operating temperatures were approximately 130 degrees Fahrenheit. The chromic acid concentration for the anodizing tank was approximately 40

grams/liter and the solution temperature was about 101 degrees Fahrenheit. Air agitation was not utilized in any tanks. One inch diameter polyballs were utilized on all the tanks. The current density applied to the dummy parts was similar to the typical applied current density used in production. The amperage and voltage used during the tests was read and recorded by PES personnel before, during, and after the tests. Average results are shown below:

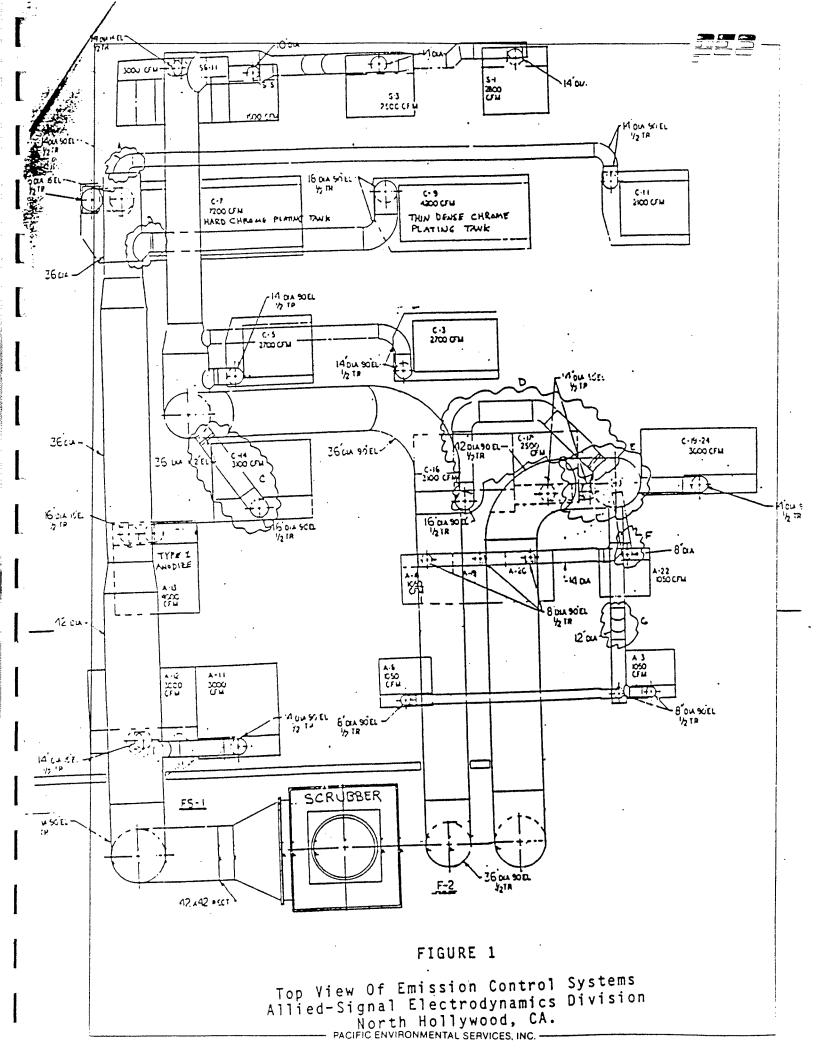
### Average Amperages Measured During Source Tests

| Tank   | Test #18                 | Test #19                | Test#20     |
|--|--------------------------|-------------------------|-------------|
| Plating tank C-7<br>Plating tank C-9<br>Strip tank C-11<br>Anodizing tank A-13 | 3899<br>1413<br>67<br>18 | 3344<br>981<br>69<br>17 | 0<br>0<br>0 |
| Total  | 5397                     | 4411                    | 0           |

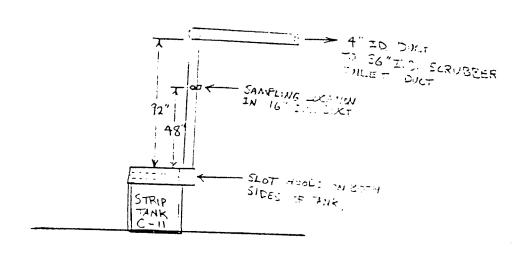
The first efficiency test was conducted while using maximum hard chrome plating amperages (3899 and 1413 amps). The strip tank amperage was 67 amps. Since the anodizing process was 40 minutes long, several different aluminum dummy loads were anodized during each 240 minute test. The anodizing voltage was 40 D.C. volts and the dummy loads required 17-18 amps each.

The second test was conducted while using the rectifiers' typical amp capacities in each of the hard chrome tanks (3344 and 981 amps) and the anodizing tank at 17 amps. The strip tank was read as 69 amps.

The third test was run with no electric load on any of the rectifiers or tanks. The tanks were maintained at their normal temperatures.







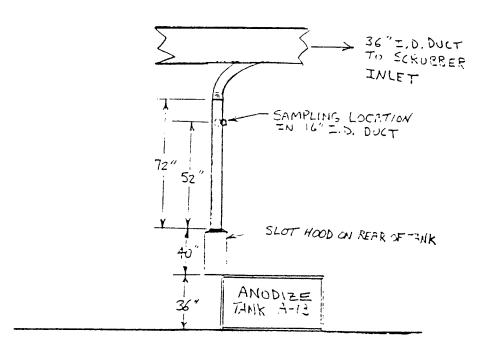


FIGURE 2

SAMPLING LOCATION FOR

TANKS A-13 and C-11

- PACIFIC ENVIRONMENTAL SERVICES, INC. -

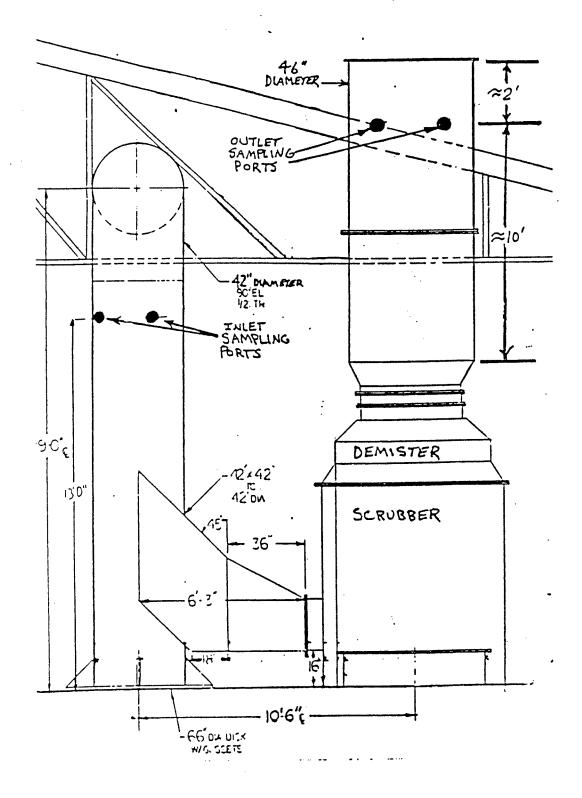


FIGURE 3

Side View Of Scrubber and Demister Showing Sampling Locations
Allied-Signal Electrodynamics Division
North Hollywood, CA.

# TESTING METHODOLOGY

Before tests were initiated, smoke generating tubes were used to check the emission collection system's effectiveness.

The number of required traverse points and their locations were specified in CARB source testing Methods 1 and 2. The sampling ports were already installed and are shown in Figures 1, 2 and 3.

A total of three days of source tests were conducted. Four simultaneous source test samples were conducted daily (one on the strip tank exhaust, one on the anodizing tank exhaust, one on the scrubber inlet and one on the scrubber outlet). Hexavalent and total chromium were measured using SCAQMD Method 205.1. Figure 5 shows the Method 205.1 sampling train. The samples were extracted through a glass nozzle, a teflon union, a 24"-72" glass-lined stainless steel probe, a 10 foot teflon hose from the probe to the first impinger, two Greenburg-Smith impingers each with 100 ml. of 0.02N sodium bicarbonate solution, an empty impinger, a glass filter holder, an impinger filled with silica gel, a 30 foot umbilical line, a vacuum pump, a dry gas meter, and a calibrated orifice connected to an inclined manometer.

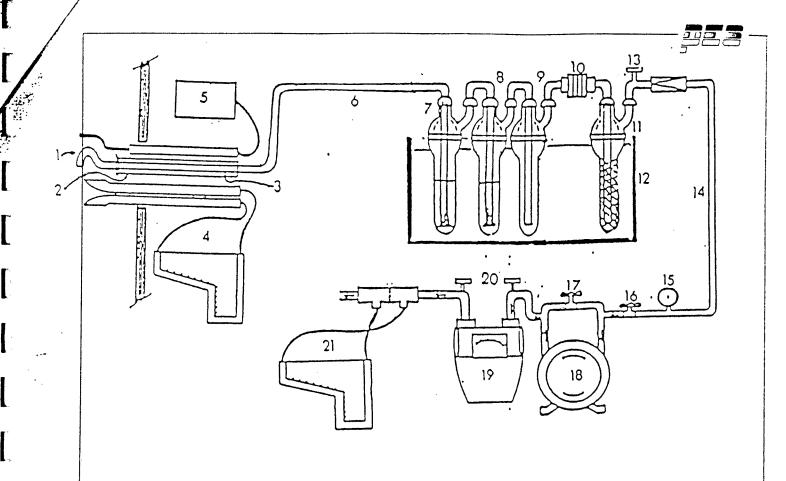
Teflon-coated glass fiber filters with 0.3, 0.1, and 0.035 micron pore layers were in the filter holders. CARB Method 3 was used to determine the moisture content of the stack gas during each source test; the volume of the impinger solution and the weight of the silica gel was recorded before and after the tests in order to obtain the moisture content of the stack gas stream. Leak checks were performed before and after each test. The length of the tests was four hours on the first two days and 6 hours on the third day. Sample size was approximately 100 to 300 cubic feet. Field data and process data were recorded during the tests on data sheets (Appendix). Source test calculations are also included in the appendix.

After the tests, the contents of the impingers was placed in a 1000 ml. polyethylene container. The sampling train was rinsed from the 3rd impinger to the nozzle with a 0.02 N NaHCO3 solution and 0.1N HNO3 and the rinse was added to the sample. Filters were placed in the same polyethylene bottles. The impinger solution was chilled to 68 degrees Fahrenheit or less during and after the tests and prior to the analyses in order to prevent deterioration of hexavalent to total chrome.

Laboratory analyses were conducted by Thermo Analytical Laboratory in Monrovia, California. Analyses for total chrome used atomic absorption spectrophotometry and analyses for



hexavalent chrome used diphenylcarbazide colorometric techniques. The detection level of the analytical procedure for hexavalent chrome, Cr 6, and total chrome, Cr T, were 0.003 and 0.001 mg/l respectively. Total chrome is easier to measure and detection levels can be reduced to lower levels than those possible for hexavalent chrome. Total chrome analyses serve as a back-up and quality control check for hexavalent chrome concentrations. A sample submittal/chain of custody sheet was completed when the samples were submitted (Appendix).



- 1. Glass sampling nozzle with teflon union
- 2. Stainless steel probe sheath
- 3. Glass-lined probe
- 4. Type S pitot tube and manometer for velocity determinations
- 5. Stack temperature sensor
- 6. 15 ft. teflon probe line with ball and socket connectors
- 7. Greenburg-Smith impinger with 100 ml. of 0.02 N NaHCO3 solution
- 8. Greenburg-Smith impinger with 100 ml. of 0.02 N NaHCO3 solution
- 9. Modified Greenburg-Smith impinger (dry)
- 10. Filter holder with teflon-coated glass fiber filter
- 11. Modified Greenburg-Smith impinger filled with 200 grams of silica gel
- 12. Impinger case filled with ice
- 13. Impinger exit gas temperature sensor
- 14. Umbilical line to meter box
- 15. Vacuum gauge
- 16. Coarse adjustment valve
- 17. Bypass valve to adjust sample volume
- 18. Leak free vacuum pump
- 19. Dry gas meter
- 20. Dry gas meter inlet and outlet temperature sensors
- 21. Orifice with manometer sample volume metering

FIGURE 3

Diagram Of Sampling Train

# RESULTS OF TESTS

The strip tank showed no detectable levels of hexavalent chromium during any of the three four-to six-hour tests. Total chrome was just detectable but with only about 0.6 mg/hr emission rate during the first two tests (Tables 1 & 2). On the last six-hour test, no emissions were detectable from the strip tank whether measured as Cr6 or CrT (Table 3).

The chromic acid anodizing tank showed 0.464 mg/ah and 0.527 mg/ah of hexavalent chrome emissions. This tank, as well as all other tanks hooked to the same ventilation system, utilized 1" polyballs to reduce misting from the tank surface. Based on an uncontrolled emission rate of 5.2 mg/ah, the polyballs were reducing emissions off the anodizing tank solution by about 90%. The Cr6 emission rate was 8.4 and 9.0 mg/hr. When the tank was tested with no anodizing taking place, emissions of Cr6 measured 32 mg/hr; however agitation air was leaking into the tank and causing significant bubbling of the surface for almost one hour of this test before the air line was disconnected. Otherwise, results would possibly have been less, perhaps zero.

The inlet to the scrubber showed 0.254 mg/ah on the combined heavy load (5397A) and 0.200 mg/ah at average loads (4411A). The only load that changed was for hard chrome plating tanks C-7 and C-9. The strip tank and anodizing tank amperages were essentially constant on both days of testing at load. The third day of testing with no loads on any tank showed no detectable emissions of hexavalent chrome. However based on emissions measured from the anodizing tank while the agitation air was leaking, the inlet concentrations to the scrubber were probably about 24-33 mg/hr of total chrome. The hexavalent chrome could have been below detection because of the dilution effect of the clean exhaust flow air from the other three tanks.

The scrubber outlet exhaust showed 0.019 mg/ah of Cr6 at high load and 0.037 mg/ah of Cr6 at medium load for an average of 0.028 mg/ah. Using the average of the two tests, the facility could comply with the May 1, 1990 requirement of Rule 1169 for 0.03 mg/ah. Results were way below the 0.15 mg/ah standard required for those facilities with less than 3,600,000 ah/yr. The Allied Signal amp-hour meters showed an annualized usage of 3.25 million amp-hours per year so compliance with the 0.15 mg/ah standard would be required and was easily demonstrated.

During the third day of test with no plating, stripping, or anodizing taking place, Cr6 emissions going to the atmosphere were not detectable using a 6-hour sampling period (Table 3B). Total chrome (Cr3) was detected and estimated at 10.7 mg/hr

(Table 3A). However, this very low concentration measurement was only about twice the value of the train blank samples and should be regarded with some caution (Table 4).

Particulate matter discharged out of the scrubber was estimated from an analysis of total solids in the test samples compared to the train blanks. Results are highly questionable. Two days of samples on the scrubber showed 0.027 and 0.054 grains/scf while the third day showed the blank to contain more solids than the scrubber outlet sample. Total solids results are shown with the laboratory results (Appendix). Allied Signal's combination use of polyballs and the wet scrubber reduces the chromic acid mist, measured as Cr6 from about 5.2 mg/ah to 0.028 mg/ah which is a 99.5 percent reduction. It would therefore be expected that total solids in the chromic acid mist also would be reduced by 99.5 percent.

TABLE 1A: ALLIED SIGNAL TOTAL CHROMIUM EMISSIONS

| 8-90. 4-18-90. on 4-18-90 on 4-18-90 on 4-18-90 on 4-18-90  EMISSIONS Cr T Cr T 0.006 0.544 0.290 0.290  | EFFICIENCY = 87.9 |
|--|-------------------|
| 444  | EFFICIEN          |
| sample train on 4- ank sample train culet sampling train ttlet sampling train ACTUAL ACTUAL EMISSIONS AVERAGE Cr T AMPERAGE (mg/hour) (amps)  0.4 67  9.8 18 186.7 5397  | ì                 |
| Th tank dizing tubber in ubber ou STACK FLOW RATE (dscfm) 2096 4552 18610 20256  |                   |
| in the in the in the in the in the in the in the in the in the in 0.0000 0.0000 0.00014  |                   |
| on the impingers in the on the impingers in the on the impingers in the on the impingers in the on the impingers in the on the impingers in the pringer Catch SAMFLE EMISSIO Cr T (mg) (dscf) (mg/dsc. 171.644 0.0000 0.0068 189.527 0.0000 0.3196 228.407 0.0014 0.0246 160.124 0.00018 |                   |
| from the i<br>from the i<br>from the i<br>from the i<br>Catch<br>Cr T<br>(ng)<br>0.0068  |                   |
|  |                   |
| Sample Sample Sample Sample Sample Sample Sample Sample (ml) 680 655   |                   |
| A518-1<br>A518-2<br>A518-3<br>A518-4<br>SAMFLE<br>RUN<br>NUMBER<br>A518-1<br>A518-2<br>A518-3  |                   |

EFFICIENCY = 92.5

TABLE 1B: ALL1ED SIGNAL HEXAVALENT CHRONIUM ENISSIONS

| the strip tank sample train on 4-18-90.<br>the anodizing tank sample train on 4-18-90.<br>the scrubber inlet sampling train on 4-18-90<br>the scrubber outlet sampling train on 4-18-90  | EMISSIONS<br>Cr +6<br>(ng/amp-kour)                      | 0.000                  | 0.464   | 0.254   | 0.019   |
|--|--|------------------------|---------|---------|---------|
| ain on 4-1<br>e train on<br>ing train<br>ling train  | AVERAGE<br>AMPERAGE<br>(amps)                            | 29                     | 18      | 5397    | 5397    |
| strip tank sample train on 4-18-90.<br>anodizing tank sample train on 4-18-90<br>scrubber inlet sampling train on 4-18-3<br>scrubber outlet sampling train on 4-18   | ACTUAL EMISSIONS AVERAGE Cr +6 AMPERAGE (mg/hour) (amps) | 0.0                    | 8.4     | 1372.2  | 104.6   |
| ip tank<br>dizing t<br>ubber in<br>ubber ov  | STACK<br>FLOW<br>RATE<br>(dscfm)                         | 2096                   | 4552    | 18610   | 20256   |
| in in in   | SAMPLE EMISSIONS<br>ETER VOL Cr +6<br>(dscf) (mg/dscf)   | 0.00000                | 0.00003 | 0.00123 | 0.00009 |
| impingers<br>impingers<br>impingers<br>impingers   | SAMPLE EMISSION<br>METER VOL Cr +6<br>(dscf) (mg/dscf    | 0.0000 171.644 0.00000 | 189.527 | 228.407 | 160.124 |
| from the fro | Impinger<br>Catch<br>Cr +6<br>(ng)                       | 0.0000                 | 0.0058  | 0.2807  | 0.0138  |
| liquid<br>liquid<br>liquid<br>liquid   | Conc.<br>Cr +6<br>(mg/1)                                 | 0.0000                 | 0.0085  | 0.4285  | 0.0185  |
| Sample liquid<br>Sample liquid<br>Sample liquid<br>Sample liquid   | SAMPLE<br>VOLUME<br>(ml)                                 | 520                    | 680     | 655     | 745     |
| AS 18-1<br>AS 18-2<br>AS 18-3<br>AS 18-4   | SAMPLE<br>RUN<br>NUMBER                                  | AS18-1                 | AS 18-2 | AS 18-3 | AS 18-4 |

TABLE 2A: ALLIED SIGNAL TOTAL CHROMIUM EMISSIONS

| 19-90,<br>1-4-19-90,<br>30   | STACK ACTUAL<br>FLOW EMISSIONS AVERAGE EMISSIONS<br>RATE Cr T AMPERAGE Cr T<br>(dscfm) (mg/hour) (amps) (mg/amp-hour) |
|--|---|
| ain on 4-1<br>e train or<br>on 4-19-5<br>n on 4-19-  | AVERAGE<br>AMPERAGE<br>(angs) (   |
| from the impingers in the strip tank sample train on 4-19-90. from the impingers in the anodizing tank sample train on 4-19-90. from the impingers in the scrubber inlet sampl on 4-19-90 from the impingers in the scrubber outlet sampn on 4-19-90 | ACTUAL<br>EMISSIONS<br>Cr T<br>(mg/hour)  |
| dp tank<br>dizing<br>dbber i   |   |
| in the str<br>in the and<br>in the sor<br>in the sor   | SAMPLE EMISSIONS<br>METER VOL Cr T<br>(dscf) (mg/dscf)  |
| impingers in the simpingers in the simpingers in the simpingers in the simpingers in the s   | -   |
| I from the I from the I from the I from the I from the I   | Impinger<br>Catch<br>Cr T<br>(mg)   |
| llguic<br>liguic<br>liguic<br>liguic   | Conc.<br>Cr T<br>(10g/1)  |
| Sample<br>Sample<br>Sample<br>Sample   | SAMPLE<br>VOLUME<br>(ml)  |
| AS19-1<br>AS19-2<br>AS19-3<br>AS19-4   | SAMFLE<br>RUN<br>NUMBER   |

EFFICIENCY = 82.5

0.013

69

0.9

1869

0.0008 100.989 0.00001

0.0020

390

AS 19-1

0.249

17

4.2

4282

0.00002

208.809

0.0034

0.0040

860

AS 19-2

0.234

4411

1032.7

17363

220.198 0.00099

0.2183

0.4080

535

AS 19-3

0.0650

435

AS 19-4

0.041

4411

179.3

20119

 $0.0283 \quad 190.335 \quad 0.00015$ 



# TABLE 2B: ALLIED SIGNAL HEXAVALENT CHROMIUM EMISSIONS

|   | _  |                 |
|---|--|-----------------|
| the strip tank sample train on 4-19-90.  the anodizing tank sample train on 4-19-90.  the scrubber inlet sampling train on 4-19-90  the scrubber outlet sampling train on 4-19-90 | STACK ACTUAL SAMPLE EMISSIONS FLOW EMISSIONS AVERAGE EMISSIONS METER VOL Cr +6 RATE Cr +6 AMPERAGE Cr +6 (dscf) (mg/dscf) (dscfm) (mg/kour) (amps) (mg/amp-hour) | 0.000           |
| ain on 4-1<br>train or<br>ing train<br>ling train   | AVERAGE<br>AMPERAGE<br>(amps)  | 69              |
| sample tra<br>tank sample<br>nlet sampla<br>tilet samplatiet  | ACTUAL<br>EMISSIONS<br>Cr +6<br>(mg/hour)  | 0.0             |
| tip tank<br>dizing t<br>ubber ir  | STACK<br>FLOW<br>KATE<br>(dscfm)   | 1869            |
| in the<br>in the<br>in the<br>in the  | EMISSIONS<br>Cr +6<br>(ng/dscf)  | 100.989 0.00000 |
| impingers<br>impingers<br>impingers<br>impingers  | , mar  | 100.989         |
| from the<br>from the<br>from the  | Impinger<br>Catch<br>Cr +6<br>(ng)   | 0.0000          |
| liquid<br>liquid<br>liquid<br>liquid  | Conc.<br>Cr. +6<br>(ng/1)  | 0.0000          |
| Sample<br>Sample<br>Sample<br>Sample  | SAMPLE<br>VOLUME<br>(ml)   | 390             |
| AS19-1<br>AS19-2<br>AS19-3<br>AS19-4  | SAMPLE<br>RUN<br>NUMBER  | AS19-1          |
|   |  |                 |

EFFICIENCY = 81.5

0.000

0.200

4411

882.1

17363

0.00085

220, 198

0.1964

0.3485

535

AS19-3

0.527

17

9.0

4282

208,809 0,00003

0.0073

0.0085

960

AS 19-2

0.037

4411

161.4

20119

0.0254 190.335 0.00013

0.0585

435

AS 19-4

TABLE 3A: ALLIED SIGNAL TOTAL CHROMIUM EMISSIONS

| le liquid from the impingers in the strip tank sample train on 4-20-90. le liquid from the impingers in the anodizing tank sample train on 4-20-90. le liquid from the impingers in the scrubber inlet sampling train on 4-20-90 le liquid from the impingers in the scrubber outlet sampling train on 4-20-90 |
|--|
| n the<br>n the<br>n the<br>n the   |
| impingers i<br>impingers i<br>impingers i<br>impingers i   |
| liquid from the liquid from the liquid from the liquid from the liquid from the  |
| Sample<br>Sample<br>Sample<br>Sample   |
| AS20-1<br>AS20-2<br>AS20-3<br>AS20-4   |

| ACTUAL   | <b>EMISSIONS</b> | Cr T           | (mg/hour)    |   |
|----------|------------------|----------------|--------------|---|
| STACK    |                  | RATE           | (dscfm)      |   |
|          | <b>EMISSIONS</b> | Cr T           | (mg/dscf)    |   |
|          | SAMPLE           | METER VOL Cr T | (dscf)       | 11111111                                |
| Impinger | Catch            | Cr T           | (mg)         | +                                       |
|          | Conc.            | Cr T           | (mg/1)       | !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! |
|          | SAMPLE           | VOLUME         | (mJ)         |   |
|          | SAMPLE           | RUN            | <b>Z</b> . 1 | !<br>!<br>!<br>!                        |

| 0.0     | 33.0 *  | 24.2    | 10.7     |
|---------|---------|---------|----------|
| 1924    | 4812    | 16632   | 20570    |
| 0.00000 | 0.00011 | 0.00002 | 0.00001  |
| 136,354 | 304.283 | 305.568 | 283, 586 |
| 0.0000  | 0.0348  | 0.0074  | 0.0025   |
| 0.0000  | 0.0500  | 0.0100  | 0:0030   |
| 730     | 695     | 740     | 820      |
| AS20-1  | AS20-2  | AS20-3  | AS20-4   |

the tank surface for about one hour during this test; the measured emission Agitation air was leaking into the tank and causing significant bubbling at rate is therefore higher than normally expected and the air may account for all the emissions



TABLE 3B: ALLIED SIGNAL HEXAVALENT CHROMIUM EMISSIONS

| Sample liquid from the impingers in the strip tank sample train on 4-20-90. Sample liquid from the impingers in the anodizing tank sample train on 4-20-90. Sample liquid from the impingers in the scrubber inlet sampling train on 4-20-90 Sample liquid from the impingers in the scrubber outlet sampling train on 4-20-90 |
|--|
| liquid fro<br>liquid fro<br>liquid fro<br>liquid fro   |
| Sample<br>Sample<br>Sample<br>Sample   |
| AS20-1<br>AS20-2<br>AS20-3<br>AS20-4   |

| ACTUAL<br>EMISSIONS<br>Cr +6<br>(mg/hour)               | 0.0      | 32.0 *  | 0.0      | 0.0      |
|---|----------|---------|----------|----------|
| STACK<br>FLOW<br>RATE<br>(dscfm)                        | 1924     | 4812    | 16632    | 20570    |
| SAMPLE EMISSIONS<br>METER VOL Cr 16<br>(dscf) (ng/dscf) | 0.00000  | 0.00011 | 0.00000  | 0.00000  |
|   | 136, 354 | 304.283 | 305, 568 | 283, 586 |
| Impinger<br>Catch<br>Cr +6<br>(mg)                      | 0.0000   | 0.0337  | 0.0000   | 0.0000   |
| Conc.<br>Cr. +6<br>(#g/1)                               | 0.0000   | 0.0485  | 0.0000   | 0.0000   |
| SAMPLE<br>VOLUME<br>(ml)                                | 730      | 695     | 740      | 920      |
| SAMFLE<br>KUN<br>NUMBER                                 | AS20-1   | AS20-2  | AS20-3   | AS20-4   |

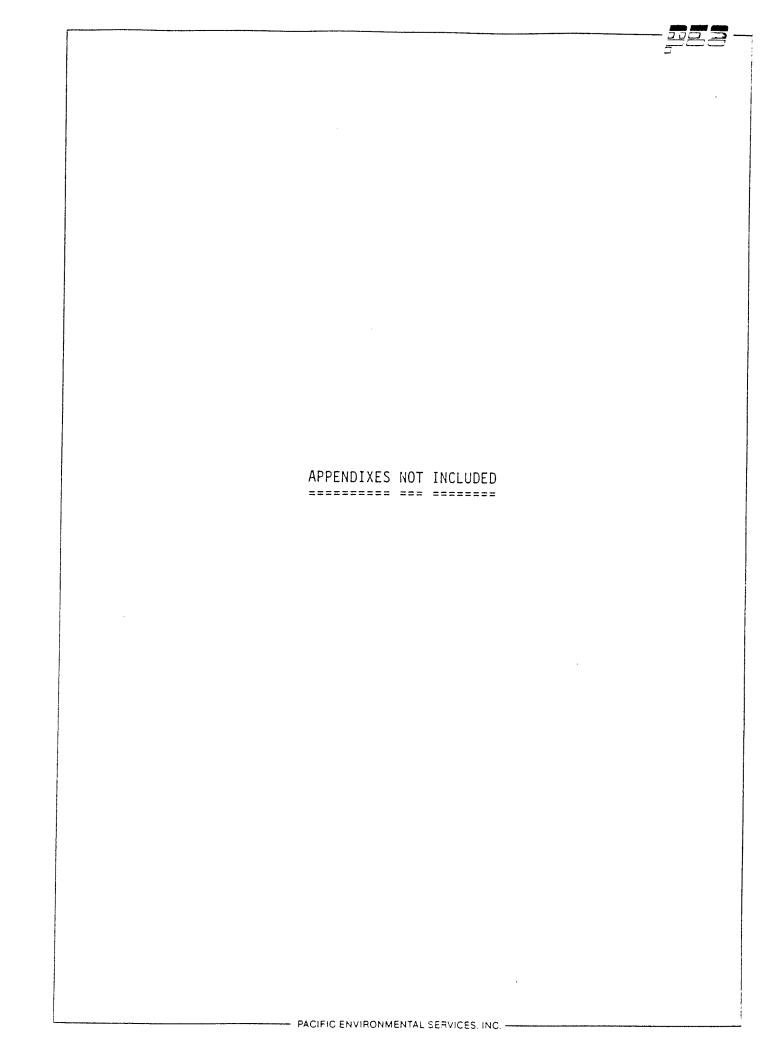
Agitation air was looking into the tank and causing significant bubbling at the surface for about one hour during this test; the measured emission rate is therefore higher than normally expected and the air may account for all of the emissions.



TABLE 4
FIELD TRAIN BLANK RESULTS

| Sample  | Cr *   | Cr    |
|---------|--------|-------|
| AS18-5  | <0.003 | 0.002 |
| AS19-5  | <0.003 | 0.001 |
| AS20-5  | <0.003 | 0.003 |
| Average | <0.003 | 0.002 |

<sup>\*</sup> Values below detection were considered to be 0.0015 for purposes of correcting field samples.



PERMIT # P43029

# DEGREASER

59 74 770 10 770

|            | ,        |                | ==========        |                |               |
|------------|----------|----------------|-------------------|----------------|---------------|
|            | DATE     | ADDITION (QTY) | FOR RECYCLE (QTY) | ADDED TO 921-1 | ADDED TO 9130 |
| 013        | 10-18-89 | 19,25          | ·                 |                |               |
|            | 10-22-89 | 29.05          |                   |                |               |
| -          | 10-24-89 |                |                   |                | 2 G-AG,       |
| ,          | 10-29-89 | 68.72          |                   | ***            |               |
| 0913       | 10-30-89 |                | 55gol             |                |               |
|            | 10-31-89 |                | - U               |                | 2 GAC         |
| 05         | 11-6-59  |                | •                 |                | 2 G-AC        |
| <i>K</i> > | 11-6-89  | 58.23          |                   |                | ·             |
|            | 11-7-89  |                |                   |                | 1,5G-1AC      |
|            | 11-13-89 |                |                   |                | 1.5 GAL       |
|            | 11-18-89 |                |                   |                | 1 GA(.        |
| 13         | 11-18-89 |                |                   | \$.            | 10 gal        |
|            | 71-18-89 | 33.05          |                   |                | 9             |

0913

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| PERMIT | # | P43029 |
|--------|---|--------|
|--------|---|--------|

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|------|---|----------------|-------------------|-------------------|------------------|
|      | DATE                                    | ADDITION (QTY) | FOR RECYCLE (QTY) | ADDED TO<br>921-1 | ADDED TO<br>9130 |
| JH   | 11-20-89                                |                |                   | 37                | 3501             |
| 0913 | 11-20.59                                | 66,77          |                   | <b>V</b>          | 0                |
| BS   | 11-27-89                                |                |                   |                   | 1.5 GA.          |
| 0413 | 11-28-89                                | 23.37          |                   |                   |                  |
|      | 11-29-89                                | 2 <b>3</b> .78 |                   |                   |                  |
| 0913 | 12-2-89                                 |                | 165gol            |                   |                  |
| 0913 | 12-2.59                                 | 165.02         | V                 |                   |                  |
| 0913 | 12-5-89                                 |                |                   | 55gp]             |                  |
| 0913 | 12-5-89                                 | 55,07          |                   | J                 |                  |
| · ·  | 12-7-89                                 |                |                   |                   | 1.5 6.AC         |
| 0913 | 12-11-89                                | 47.05          |                   |                   |                  |
|      | 12-15-87                                | 26,19          |                   |                   | 26.19            |
|      | 12-19-89                                | 4.5            |                   |                   | 2.0              |

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| PERMIT | # | P43029 |
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| DATE    | ADDITION (QTY) | FOR RECYCLE (QTY) | ADDED TO 921-1 | ADDED TO 9130 |
|---------|----------------|-------------------|----------------|---------------|
| 12/20   | 4.5 gd         | /                 |                |               |
| 12/21   | 4.59M          |                   |                |               |
| 12/22   | 4,5            |                   |                |               |
| 12/25   | 9,5            |                   |                |               |
| 12/26   | 4.5            |                   |                |               |
| 12/27   | 4:5            |                   |                |               |
| 12/28   | 4.5            |                   |                |               |
| 12/29   | 4:5            |                   |                |               |
| 12/30   | 4.5            |                   |                |               |
| 12/3/18 | 4.5            |                   |                |               |
| 1/2/90  | 4.5            |                   |                |               |
| 1/3/50  | 4.5            |                   |                |               |
| 1/3/50  | 1.5            |                   |                |               |

| PERMIT | # | P43029 |  |
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| DATE     | ADDITION (QTY) | FOR RECYCLE (QTY) | ADDED TO<br>921-1 | ADDED TO 9130 |
|----------|----------------|-------------------|-------------------|---------------|
| 1/5/80   | 4,5            |                   |                   |               |
| 1/4/90   | 4.5            |                   |                   |               |
| 1/7/90   | 925            |                   |                   |               |
| 1/8/90   | 9.5            |                   |                   |               |
| 1-9-90   |                |                   |                   | I GAC.        |
| 1-10-90. | ·              |                   |                   | 1 GAC         |
| 1-10-90  | <b>4</b> 5     |                   |                   | 1.0 Sul       |
| 1-11-90  | 45             |                   |                   | 1.0 gs        |
| 1-1290   | 4.5            |                   |                   | 1.0 9.01      |
| 1-13-90  | 9.5            |                   |                   | 1.0 gM        |
| 1-14-90  | \$.3           |                   |                   | 1.0501        |
| 1-15-90  | <b>4.5</b>     |                   |                   | 1.0 cm        |
| 1-15.90  |                |                   | 4.5               | S 12-1        |

| PERMIT | # | P43029 |
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|---|----------------|-------------------|----------------|---------------|
| DATE                                    | ADDITION (QTY) | FOR RECYCLE (QTY) | ADDED TO 921-1 | ADDED TO 9130 |
| 1-16-90                                 |                |                   |                | 1 GAL.        |
| 1-16-90                                 |                |                   | 4.5gm          | ,             |
| 1-16-90                                 | 4,5 541        |                   |                |               |
| 1-17-90                                 |                |                   |                | 16-F)(.       |
| 1-17-90                                 | 4,5547         |                   |                |               |
| 1-17-90                                 | U              |                   | 4,58M          |               |
| 1-18-50                                 | 4.55al         |                   |                | 1961          |
| 1-19-90                                 | 9.5sm          |                   |                | . 0           |
| 1-19-50                                 |                |                   |                | 1841          |
| 1-20-90                                 | 4.531          |                   |                | V             |
| 1-20-90                                 |                |                   |                | 18×1          |
| j-21-90<br>1-21-90                      | 4.5 3.1        |                   |                | 0             |
| 1-21-90                                 | J              |                   |                | 1 521         |

| PERMIT | # | P43029 |
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| DATE               | ADDITION (QTY) | FOR RECYCLE (QTY) | ADDED TO 921-1 | ADDED TO 9130 |
|--------------------|----------------|-------------------|----------------|---------------|
| 1-21-90            | 4.5gn          |                   |                |               |
| 1-22-90            | 4,55,1         | /                 |                |               |
| 1-23-90            | 4.554          |                   |                |               |
| 1-2391,            | V              |                   | a.55.1         |               |
| 1-24-90            | 9.584          |                   |                |               |
| 1-24-90            |                |                   |                | 1521          |
| 1-24-90            |                |                   | 9.55pl         | <i>O</i>      |
| 1-25-90            | 4.55pl         |                   |                |               |
| 1.25-90            | 0              | K                 | 1.55.01        |               |
| 1-25-90            |                |                   |                | 1GAC.         |
| 1-26-90            | 4.59H          |                   |                |               |
| i                  | 7/             |                   |                | 1 (-H(,       |
| 1-28-90<br>1-28-9J | 4.5 gn         |                   |                |               |

| _============== |                    | _===================================== |                |               |
|-----------------|--------------------|--|----------------|---------------|
| DATE            | ADDITION (QTY)     | FOR RECYCLE (QTY)                      | ADDED TO 921-1 | ADDED TO 9130 |
| 1-28-90         |                    |  | 9.58M          |               |
| 1-29-90         |                    |  |                | 1861          |
| 1-25-8          |                    |  | 9.55N          |               |
| 1-29-90         | 4.5 801            |  |                |               |
| 1-30-90         | 4.5 gol<br>4.5 gol |  |                |               |
| 1-30-90         |                    |  | 4.5501         |               |
| 1-31-90         |                    |  |                | 1 G-AL        |
| 1-31-90         | 4,581              |  |                |               |
| 1-31-98         |                    |  | 4,554          |               |
| 2-1-90          | 4.8541             |  |                |               |
| 2-1-90          |                    |  | 4.55M          |               |
| 2.1-90          |                    |  |                | 1901          |
| 2-1-90          | 4.5gm              |  |                | U             |

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| PERMIT | # | P43029                                 |
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| DATE          | ADDITION (QTY) | FOR RECYCLE (QTY) | ADDED TO 921-1 | ADDED TO 9130 |
| 2-290         |                |                   | 4.53.1         |               |
| 2.2.90        |                |                   |                | 1521          |
| 2.3.90        | 4.5            |                   |                |               |
| 2.3.90        |                |                   | 9-5 gill       |               |
| 2-3-90        |                |                   |                | 1921          |
| 2.4.90        | 4.5            |                   |                | 9             |
| 2.4.90        |                |                   | 4-5            |               |
| 2-1.90        |                |                   |                | 1921          |
| 2.5.90        | 4.5            |                   |                |               |
| 2.5.90        |                |                   | 4.3            |               |
| 2-5-70        |                |                   |                | 1 gist        |
| 2-6-90        | 4.5            |                   |                |               |
| 2.6-90        |                |                   | 4,5            |               |

| PERMIT #P43029 |  |
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|--------------|----------------|-------------------|----------------|------------------|
| DATE         | ADDITION (QTY) | FOR RECYCLE (QTY) | ADDED TO 921-1 | ADDED TO<br>9130 |
| 2-6-911      |                |                   |                | 15×1             |
| 2-7-90       |                |                   | 4.53.1         |                  |
| 2-7-90       | 4.5gpl         |                   | ,              |                  |
| 9-7-90       | V              |                   |                | 154              |
| 2-8-90       | 4.53rd         |                   |                | <i></i>          |
| 2-8-90.      | V              |                   | 9.8341         |                  |
| 2-8-90       |                |                   | /              | 100              |
| 9.9.90       | 1-5g4          |                   |                | ///              |
| 2.5-90       |                |                   | 4.571          |                  |
| 2.9.93       |                |                   |                | 1 5/11           |
| 2-1090       | 4.5961         |                   |                |                  |
| 2-16-90      | 415            |                   | 4,5gn          |                  |
| 2-18 96      |                |                   | 0              | 1 gm             |

| PERMIT | # | P43029 |
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| DATE     | ADDITION (QTY) | FOR RECYCLE<br>(QTY) | ADDED TO 921-1 | ADDED TO 9130 |
|----------|----------------|----------------------|----------------|---------------|
| 2-11-90  | 4.58R          |                      |                |               |
| 2-11-90  |                |                      | 4.5812/        |               |
| 2-11-90  |                |                      | 0              | 1 gul         |
| 2-12-90  | 4.Sgn/         |                      |                |               |
| 2-1290   |                |                      | 4-55il         |               |
| 2-1290   |                |                      | U              | 1801          |
| 2-13-80  | £-5511         |                      |                |               |
| 2-13-90  | U              |                      | 4. Szyl        |               |
| 2-13-90  |                |                      |                | /             |
| 2-1190   | 4.5840         |                      |                | 7 :::         |
| 2-14-50  | (/             |                      | 4.5gs          | 45/84         |
| 2-14-90  |                |                      |                |               |
| 2. 15.90 | 4.55/11        |                      |                |               |

| PERMIT | # | P43029 |
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|---------|----------------|-------------------|----------------|---------------|
| DATE    | ADDITION (QTY) | FOR RECYCLE (QTY) | ADDED TO 921-1 | ADDED TO 9130 |
| 2.15-90 |                |                   | 4.5 sil        |               |
| 2-15 90 |                |                   | 0              | 1521          |
| 2-16-90 | 4.5            |                   |                | 0             |
| 2-16-90 |                |                   | 4.5            |               |
| 2-16-90 |                |                   |                | 1             |
| 2-17-90 | 4.5            |                   |                |               |
| 2-17-90 |                |                   | 4.5            |               |
| 2-17-90 |                |                   |                | 1             |
| 2-18-90 | 4.5            |                   |                |               |
| 2-18-90 |                |                   | 4,5            |               |
| 2-18-9  |                |                   |                | 7             |
| 2-19-50 | 4.5            |                   |                |               |
| 2-19-56 |                |                   | 4.5            |               |

| PERMIT | # | P43029 |
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| DATE               | ADDITION (QTY) | FOR RECYCLE (QTY) | ADDED TO 921-1 | ADDED TO 9130 |
| 2-19-50            |                |                   |                | 1             |
| 2-20-90            | 4.5            |                   |                |               |
| 2-20-90            |                |                   | 4.5            |               |
| 2.20 80            |                |                   |                | /             |
| 2-21-90            | 4.5            |                   |                |               |
| 2.21-90            |                |                   | 4.5            |               |
| 2.2190             |                |                   |                | /             |
| 22290              | 4,5            |                   |                | -             |
| 2.22.90            |                |                   | 4.5            |               |
| 2.22.90            |                |                   |                | /             |
| 2-23-90            | 4.5            |                   |                |               |
| 2.23.90            |                |                   | 4.5            |               |
| 2·23·90<br>2·23·90 |                |                   |                | )             |

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|---------|----------------|-------------------|----------------|------------------|
| DATE    | ADDITION (QTY) | FOR RECYCLE (QTY) | ADDED TO 921-1 | ADDED TO<br>9130 |
| 2.2190  | 4-5            |                   |                |                  |
| 2.2490  |                |                   | 4.5            |                  |
| 2.2490  |                |                   |                | /                |
| 2.25-90 | 4.5            |                   |                |                  |
| 2.25-90 |                |                   | 4.5            |                  |
| 2-25-90 |                |                   |                | 1                |
| 226-90  | 405            |                   |                |                  |
| 2.26-90 |                |                   | 405            |                  |
| 22690   |                |                   |                | 1                |
| 2-27-90 | 4.5            |                   |                |                  |
| 2-27-90 |                |                   | 4.5            |                  |
| 2-27-9  |                |                   |                | 1                |
| 2-28-90 | 45             |                   |                |                  |

| PERMIT | # | P43029 |
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|---------|----------------|-------------------|----------------|------------------|
| DATE    | ADDITION (QTY) | FOR RECYCLE (QTY) | ADDED TO 921-1 | ADDED TO<br>9130 |
| 2-28-60 |                |                   | 4.5            |                  |
| 2-28-50 |                |                   |                | 1                |
| 3-1-90  | 4.5            |                   |                |                  |
| 3-/-90  |                |                   | 4.5            |                  |
| 3-1-80  |                |                   |                | 1                |
| 3-2-90  | 4.5            |                   |                |                  |
| 3-2-90  |                |                   | 4.5            |                  |
| 3-2-9   |                |                   |                | 1                |
| 3-3-90  | 4-5            |                   |                |                  |
| 3.3-90  |                |                   | 4.5            |                  |
| 3.3-90  |                |                   |                | 1                |
| 3-4-90  | 4.5            |                   |                |                  |
| 3-4-90  |                |                   | 4.5            |                  |

| PERMIT # | P43029 |
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| DATE   | ADDITION (QTY) | FOR RECYCLE<br>(QTY) | ADDED TO 921-1 | ADDED TO<br>9130 |
|--------|----------------|----------------------|----------------|------------------|
| 3.4.90 |                |                      | 7              | /                |
| 3-5.90 | 4.5            |                      |                |                  |
| 3-5.90 |                |                      | 4-5            |                  |
| 3-590  |                |                      |                | J                |
| 3-6-90 | 4.5            |                      |                |                  |
| 3-6-90 |                |                      | 4.5            |                  |
| 3-6-90 |                |                      |                | 1                |
| 3-7-90 | 4.5            |                      |                |                  |
| 3.7-90 |                |                      | 4.5            |                  |
| 3-7-5  |                |                      |                | /                |
| 3-8-90 | 4.5            |                      |                |                  |
| 3.6-90 |                |                      | 4-5            |                  |
| 3-8-90 |                |                      |                | /                |

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|--|----------------|-------------------|-------------------|---------------|
| DATE                                   | ADDITION (QTY) | FOR RECYCLE (QTY) | ADDED TO<br>921-1 | ADDED TO 9130 |
| 3-9-50                                 | 4.5            |                   |                   |               |
| 3-5-90                                 |                |                   | 4.5               |               |
| 3-9-91                                 |                |                   |                   | /             |
| 3-10-90                                | 4-5            |                   |                   |               |
| 3-10-95                                |                |                   | 4-5               |               |
| 3-11-90                                | 4.5            |                   |                   |               |
| 3-11-90                                |                |                   | 4.5               |               |
| 3-12-9                                 | 4.5            |                   |                   |               |
| 3-17-93                                |                |                   | 4-5               |               |
| 3-13-D                                 | 4.5            |                   |                   |               |
| 3-13-95                                |                |                   | 4.5               |               |
| 3-14-90                                |                |                   |                   | /             |
| 3-14-90                                | 4.5            |                   |                   |               |

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|--------|---------|----------------|-------------|------------|---------------|
| DAT    | E====== | ADDITION (QTY) | FOR RECYCLI | E ADDED TO | ADDED TO 9130 |
| 3-     | 19-5    |                |             | 4.5        |               |
| 3-     | 1590    | 4.5            |             |            |               |
| 3.     | 15.90   |                |             | 4.5        |               |
| 3-1    | 15-18   |                |             |            | 1             |
| 3-/    | 6.90    | 4.5            |             |            |               |
| 3-/6   | 6-90    |                |             | 4.5        |               |
| 3-16   | -9,     |                |             |            | /             |
| 3-1    | 7-95    | 4.5            |             |            |               |
| 3-/    | 7-93    |                |             | 9-5        |               |
| 3./    | 7.98    |                |             |            | /             |
|        |         |                |             |            |               |
|        |         |                |             |            |               |
|        |         |                |             |            |               |
|        |         |                |             |            |               |

|        | DATE                          | ADDITION (QTY) | FOR RECYCLE (QTY) |
|--------|-------------------------------|----------------|-------------------|
| 0913   | 12-5-89                       | 40 gio 2:      |                   |
| #8585  | 1-12-90                       | 4.5 gm         |                   |
| 18585  | 1-13-90                       |                |                   |
| A 8585 | 1-14-90                       | 4.5 SW1        |                   |
| A8585  | 1-13-90<br>1-14-90<br>1-15-90 | 4.5 SM         |                   |
|        | i-16 - 90                     | 4,5-GAL.       |                   |
| 8373   | 1-17 - 90                     | 4.5 GAL.       |                   |
| 8373   | 1-18-90                       | 4.5 GAL.       |                   |
| 8373   | 1-23-90                       | 4.5 GAL.       | 4                 |
| 8373   | 1-24-90                       | 4.5 GAL.       |                   |
| 8373   | 1-25-90                       | 9.5 GAL.       |                   |
| 8373   | 1-26-90                       | 4.5 GAL.       |                   |
| 8373   | 1-29-90                       | 4,5 GAL,       |                   |

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|---------|--|----------|-------------|--------|
| DATE    | ADDITION (QTY)                         |          | FOR RECYCLE | (QTY)  |
| 2-27-90 | 4.5                                    | Sal      |             | ====== |
| 2-28-92 | 4.5                                    | 9 n l    |             |        |
| 3-1-90  | 4,5                                    | 5 ps 1   |             |        |
| 3-2-90  | 4.5                                    | 5 m (    |             |        |
| 3-3-90  | 4.5                                    | 510/     |             |        |
| 3-4-90  | 4.5                                    | 841      |             |        |
| 3-5-90  | 4.5                                    | 0<br>SA1 |             |        |
| 3-6-50  | 4.5                                    | 5p/      |             |        |
| 3-7-92  | 9.5                                    | Sal      |             |        |
| 3-8-90  | 4.5                                    | 501      |             |        |
| 3-99)   | 4.8                                    | SM       |             |        |
| 3-10-90 | 4.5                                    | Ju 1     |             |        |
| 3.11-90 | / ~                                    | 11       |             |        |

# <u>DEGREASER</u>

| DATE    | ADDITION (QTY) | FOR RECYCLE (QTY) |
|---------|----------------|-------------------|
| 3-12-90 | 4.5 pm         |                   |
| 3.13.8  | 4.5501         |                   |
| 3-14-90 | 4.5            |                   |
| 3-15.90 | 4.5            |                   |
| 3-16-95 | 9.5            |                   |
| 3.17-8  | 4.5            |                   |
| ·       |                |                   |
|         |                |                   |
|         |                |                   |
|         |                |                   |
|         |                |                   |
|         |                |                   |
|         |                |                   |
|         |                |                   |

| _=========       |                |                   |
|------------------|----------------|-------------------|
| DATE<br>======== | ADDITION (QTY) | FOR RECYCLE (QTY) |
| 10/13/89         | 10 GAL.        | 9 GAL.            |
| 10/17/89         | 10 GAC.        | 10 GAL.           |
| 18/89            | 10 GAL         | 10 GAC            |
| 0/19/89          | 600            | 68                |
| 10/19/89         |                | 12 &              |
| 10/25/89         |                | 129               |
| 10/25/89         |                | 12 %              |
| 10-26-84         | 160%           |                   |
| 11-3-89          | IP GAL         | 9 GAL             |
| 11-16-89         | 10-GAL         | 10GAL             |
| 11/30/89         | 2 GAL          |                   |
| 12-20-89         | 10 GAL         | 10 GAC            |
| 1-3-90           | 5 626          |                   |
|                  |                |                   |



|      | DATE     | ADDITION (QTY) | FOR RECYCLE (QTY) |
|------|----------|----------------|-------------------|
| -    | 10-24-89 | 2 GAC.         |                   |
|      | 10-31-89 | 2 GA(,         |                   |
| ,    | 11-6-89  | 2 GAC,         |                   |
|      | 11-7-89  | 1.5 GAC.       |                   |
|      | 11-13-89 | 1.5 GAC.       |                   |
|      | 11-18-89 | 1-GAC          |                   |
| 0913 | 11-18-89 |                | 15gn1             |
|      | 11-18-89 | 10gpl          |                   |
|      | 11-20-89 | 3 GAL          |                   |
|      | 11-27-89 | 1.5 GAC,       |                   |
|      | 12-6-89  | 1.5 GAC        |                   |
|      | 12-19-89 | 2646           |                   |
|      | 1-9-90   | 1 G-12 C       |                   |

| DATE | ADDITION (QTY) | FOR RECYCLE (QTY) |
|------|----------------|-------------------|
| 3-10 | / Sú(          |                   |
| 3-// | 1 541          |                   |
| 3-12 | 1 54 (         | ,                 |
| 3-13 | 1 541          |                   |
| 3-14 | 1 541          |                   |
| 3.15 | 1 0,41         |                   |
| 3-16 | / 517 (        |                   |
| 3-17 | 1 501          |                   |
|      | J              |                   |
|      |                |                   |
|      |                |                   |
|      |                |                   |
|      |                |                   |

# PERMIT NO. P 3 COATING USAGE CHART

GOMPANY NAME: ALLIEO SIGNAL
GODRESS PREMISES: 11600 Shermay way
FELEPHONE NO.: (818) 503-3727
FROM 10/18/89

|          | г                   |   |                    |                       | <del>, -</del>      | _                     |                         |                        |             |                |         |            |                                    |      | -                   |                      |      | 7         |       |
|----------|---------------------|---|--------------------|-----------------------|---------------------|-----------------------|-------------------------|------------------------|-------------|----------------|---------|------------|------------------------------------|------|---------------------|----------------------|------|-----------|-------|
|          |                     | SURFACE                                 | MATERIAL           | META!                 | -                   | +                     | +                       | +                      | +           |                |         |            | -                                  | +    | \\ -                | _                    | -    |           |       |
|          |                     | AMT.                                    | (gal)              | 1 GAL                 |                     | $\top$                |                         | T                      | -           | 1              | 16AL    |            | -                                  |      |                     | †                    | 188  | +         |       |
|          |                     | 0 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | (g/ vor<br>lb/bal) | 802                   | *                   | 1                     |                         |                        |             | 20%            | 7/5     |            |                                    |      | 1                   | 大                    | 202  | ]         |       |
|          | CLEAN-UP SDEVENT IN |   | NAME               | M.EK                  |                     |                       |                         |                        | V           |                | 1       | _          |                                    |      |                     |                      |      |           |       |
| 1881     |                     | AMT.<br>USED                            | (gal)              |                       |                     | •                     | 200                     | 3                      | 1           | ,              | 602     |            | 1202                               |      | 000                 | 101                  | 200  | 3.50      |       |
|          |                     | VOC<br>(g/1 or                          | lb/gal)            |                       |                     |                       | 1839 A                  |                        |             |                |         |            |                                    |      |                     |                      | 2/5  |           | - A   |
| 10/20    | SOLVENT ADDED       |   | NAME               |                       |                     |                       | LACQUER Thinner PT 1002 |                        |             | SOLVENT DIOXES | REDUCER |            | SOLVENT 010×319<br>REDUCER 010×319 |      |                     | LACQUER THINNER      | 1001 |           |       |
| THRU     |                     | AMT.<br>USED                            | (Jeß)              | 802                   | 701                 | 202                   |                         | 209                    | 797         | 200            | 101     | 802        | 7602                               | 209  | 402                 | 297                  | 802  | 1.W<br>3  |       |
|          |                     | VOC<br>(g/1 or                          | (leg/ql)           | 6/1                   | 1,306/1 10Z         | 202 7/9               | 4176k 80Z               | 7/3057                 | 617         | 327            | 1 12 -  | 7/2/17 805 | 327/                               | 1/9/ | 327                 | 660                  |      |           | 1     |
| 10/18/87 | COATING (a)         | <u> </u>                                | E                  | White<br>MIL-0-233770 | YELLOW<br>MAIL BOOK | 1411-C-83286<br>White | MILL-81352<br>WhiTE     | M11-P-23377C<br>YELLOW | M1/-C-83286 |                | 352     | RMC-1011   | GREEN<br>GREEN                     | 11E  | BMS - 1011<br>GREEN | M16-6-19538<br>GREEN | 22C  |           |       |
| FROM 101 |                     | DATE                                    | 10/                | 81/0/                 | /25                 | 2/8                   | 10/24                   | 10%                    | 10/30       | 1/4            |         | 101        | 0//0/                              | 119  | 1,20                | 30                   | 2000 | . <u></u> | eddy. |

# COATING USAGE CHART

P36679 PERMIT NO. -31-90 1600 Sherman SIGNAL THRU COMPANY NAME. ALLIED TELEPHONE NO. , (8/8) ADDRESS PREMISES. FROM \_\_ θŧ

|      | COATING  | =           |       | SOLVENT ADDED  | 9          |       | CLEAN-UP SOLVENT (b)   | 2              |       |                |          |
|------|--|-------------|-------|--|------------|-------|--|----------------|-------|----------------|----------|
|      | A CONTRACTOR OF THE PROPERTY O | 200         | AMT.  |  | VOC        | AMT.  |  | VOC            | AMT.  | SUE            | SURFACE  |
|      | NAME #,  | (g / 1 or   | USED  |  | (g/1 or    | USED  |  | (g/lor         |       | MAT            | MATERIAL |
| DATE | COLOR  | (leb/ql     | (gal) | NAME   | lb/gal)    | (gal) | NAME   | (leq/qi        | (gal) | 00             | COATED   |
| 7/26 |  | 327         | 2091  | SOLVENT CHOX319  |            | 2021  | MEK  | 8 7/5<br>8 7/5 |       | MCTAL          | A        |
| 1/1  | <u>ත</u>   | 5.895       | 597.  |  |            |       |  |                |       |                |          |
| 0)/  |  | 10S/SW      | الح   |  |            |       |  | -              |       |                |          |
| 1/27 |  | 630         | 80%   |  |            |       |  |                |       |                |          |
| 1/2  | M1L-5-83430A   | 1           | 52    | TOLVENE  | 998        | 1202  |  | <u> </u>       | 160   | - <del> </del> |          |
| 7    |  | 650         | 2021  |  | 3/5        |       |  | <u> </u>       |       | +              |          |
| 87/  |  | 7/9<br>WYEN |       |  |            |       | A THE RESERVE AND A STATE OF THE PROPERTY OF T | 4              |       | +              |          |
| 82/, | r W  | 596         | 202   | e production de la company de la company de la company de la company de la company de la company de la company |            |       |  |                |       |                |          |
| ,/30 |  | 4676        | 297   | PT 1002  | 843        | 197   |  | 1 Pag          |       |                |          |
| 8//, | 77-P-1757  | 345         | 209   | Teluens  | 7/S<br>998 | 202   |  |                | 1.64  |                |          |
| 18/, | MI1-C-83286  | 6/7         | 2091  |  |            |       |  |                |       | -              |          |
|      |  | 2           |       |  |            |       |  |                |       | -              |          |
|      |  |             |       |  |            |       |  |                |       |                |          |
|      |  |             |       |  |            |       |  |                |       |                |          |
|      |  |             |       |  |            |       |  |                |       |                |          |
|      |  |             |       |  |            |       |  |                |       |                |          |
|      |  |             |       |  |            |       |  |                |       |                | -        |

(a) If a catalyst is added, enter name, VOC, and amount used

PREPARED RY. NARAE

# **COATING USAGE CHART**

ALLIED SIGNAL 11600 ShERMAN WAY ADDRESS PREMISES 11600 COMPANY NAME.

PERMIT NO.

P366769

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TELEPHONE NO. (818)-FROM 2 - 13

| 2/3 8mS 2/4 8mS 2/5 8mS 2/5 8mS | 707               |  |              |                    |                |              | CLEAN. HD SOUVENT     | 7                 |       |          |
|---------------------------------|-------------------|--|--------------|--------------------|----------------|--------------|-----------------------|-------------------|-------|----------|
| 12 4 53 88 F                    |                   | (())   | 1000         |                    |                | 1            | CECAIT-OF SOLVEIN (6) | 6                 |       |          |
| # 18 C & 2 C                    | NAME #,           | 40C<br>(g/1 or                                   | AMI.<br>USED |                    | VOC<br>(q/1 or | AMT.<br>USED |                       | / 00/ of          | AMT.  | SURFACE  |
| 8 m 4 2 6                       | COLOR             | (lb/gal)   | (gal)        | NAME               | lb/gal)        | (gal)        | NAME                  | lg/lor<br>lb/bal) | (gal) | COATED   |
| 20 4 30                         |                   |  |              |                    |                |              |                       |                   |       | Merrol   |
| 4 20 1                          | -/0//<br>ECN      | 327  | 1202         | SOLVENT OIOX319    |                | 1            |                       |                   |       | ムでイリー    |
| 2000                            | 111               | 327  | 407          | //                 |                | 700          |                       |                   |       |          |
| 100                             | BMS-1011<br>ORGEN | 1  | 8 07         | "                  |                | 4 67         |                       |                   |       |          |
|                                 | BMS-1011<br>GREEN | 10:  | 802          | 11                 |                | 407          |                       |                   |       |          |
| 2/24 Mil                        | 3776              | 630  |              |                    |                | 3            |                       |                   |       |          |
| 2/24 mil                        | 238               | 0.1  |              | CACGUER Thinner843 | T              | 1            | MEK                   | 208               | 1     |          |
| £ 3                             | 7800              |  |              |                    |                | 0            |                       |                   | SAC.  |          |
| 31,1                            | M.1-1-19538       | 660  | 1602         | LACQUER Things 843 | <del>   </del> | 8            |                       |                   |       |          |
| 3,2                             | P-23377E          | 630  | 2091         |                    | ++             | )            |                       |                   |       |          |
| 2/ SURER 128 PRIME              | Ackepou           | <del>                                     </del> | 208          |                    |                |              |                       |                   |       |          |
| 82/2                            |                   |  |              |                    |                |              |                       |                   |       |          |
|                                 |                   |  |              |                    |                |              | HEDIANE               | 0/4               | 3     |          |
|                                 |                   |  |              |                    |                |              |                       |                   |       |          |
|                                 |                   |  |              |                    |                |              |                       |                   |       |          |
|                                 |                   |  |              |                    |                |              |                       |                   |       | <b>→</b> |

(a) If a catalyst is added, enter name, VOC, and amount used

COATING USAGE CHART

PERMIT NO.

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IP titl.

18 21 151

COMPANY NAME ALLIED SIGNAL ADDRESS PREMISES 11600 Sherman way TELEPHONE NO. (8/8) 503-3727

\_THRU\_

1990

|         | COATING (a)       | 2          | <br>  | SOLVENT ADDED   |         |       | CLEAN-UP SOLVENT (6) |         |       |   |
|---------|-------------------|------------|-------|-----------------|---------|-------|----------------------|---------|-------|---|
|         |                   | NOC        | AMT.  |                 | VOC     | AMT   |                      | JUA     | DAAT  | SIDEACE                                 |
|         |                   |            | USED  |                 | {g/1 or | USED  |                      |         | USED  | MATERIAL                                |
| ATE     | COLOR             | (leg/dl    | (leb) | NAME            | lb/gal) | (gal) | NAME                 | (led/dl | (gal) | COATED                                  |
| 1       | BMS-1011<br>GREEN | 327<br>6/4 | 202   | SOLVENT DIDX309 |         | 209   |                      |         |       | mETal                                   |
| 3/8     | BMS-1011<br>GREEN | 327        | 20 0/ | 11              |         | 11 02 |                      |         |       | *************************************** |
| 3/12    | 177 €             | 630        | 2001  |                 |         |       | Z T T Z              |         | 00,   |   |
| 3/12    | 3286              | 617        | 2001  |                 |         |       |                      |         |       |   |
| 3/15    | M11- 1-23577E     | 630        | 2001  |                 |         |       |                      |         |       | -                                       |
| 3//5    | 1                 | 617        | 200)  |                 |         |       |                      |         |       |   |
| 3/19    | 10357             |            | 201   |                 |         |       |                      | 3/5     | 1 44  |   |
| 3/19    |                   |            | 20 2  |                 |         |       | MEK                  |         |       |   |
| 3/23/60 | BMS 1011<br>GREEN | 327<br>0/L | 2001  | REDUCER         |         | 20 6  |                      |         |       |   |
| 3/30    | M1/-P-23377E      | 089        | 197   |                 |         |       |                      |         |       |   |
| 3/30    | M11-4-19538       | 0,7        | 107   | con ta          | 843     | 3     |                      |         |       |   |
| 3/50    |                   |            |       |                 | 9       |       | HEDIANK              | 269     | Sag   |   |
| -       |                   |            |       |                 |         |       |                      |         | 5     |   |
|         |                   |            |       |                 |         |       |                      |         |       |   |
|         |                   |            |       |                 |         |       |                      |         |       | 7                                       |

201 If a catalyet is added poter name VOC, and amount used

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1990

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PERMIT NO. COATING USAGE CHART COMPANY NAME: ALLIED SIGNAL PEF PEF ADDRESS PREMISES 11600, SHERMAN MAN 81-17

\_THRU\_

FROM

|                      | SURFACE  | COATED              |                            |   |  |  |  |  |  |  |  |
|----------------------|----------|---------------------|----------------------------|---|--|--|--|--|--|--|--|
|                      | AMT.     | (gal)               |                            |   |  |  |  |  |  |  |  |
|                      | VOC      | (b/bal)             |                            |   |  |  |  |  |  |  |  |
| CLEAN-UP SOLVENT (b) |          | NAME                |                            |   |  |  |  |  |  |  | ***************************************  |
|                      | AMT.     | (gal)               | 1102                       |   |  |  |  |  |  |  |  |
|                      | 200      | lb/gal)             |                            |   |  |  |  |  |  |  |  |
| SOLVENT ADDED        |          | NAME                | SOLVENT OIOX319<br>REDUCER |   |  |  |  |  |  |  |  |
|                      | AMT.     | (gal)               | 206                        |   |  |  |  |  |  |  |  |
|                      | VOC AMT. | (jy   0)<br> p/gal) | 327                        |   |  |  |  |  |  |  |  |
| COATING (a)          |          |                     | &MS-1011<br>GREEN          | 1 |  |  |  |  |  |  | The state of the s |
|                      |          | DATE                | 9/2                        |   |  |  |  |  |  |  |  |